

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☐

5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 12-17-82 to: 12-29-82

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct Drilling

SIGNED M E Kraugh / A.G. TITLE Superintendent DATE 1-6-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TINCUP MESA #3-23

- 12-25-82 5,730' MADE 116' IN HOVENWEEP FORMATION. MW 10.3, VIS 45. FIN CORING TO 5,654'. POH, LD CORE. REC 60'. PU BIT. RIH W/BHA. WASH & REAM 60' TO BTM. DRLG AHEAD, NO PROB. CORE DESCRIPTION: 5,594-96' LT BROWN LS, 5,596-5,602' GRAY DOLOMITE, 5,602-5,612' GRAY LS BRECCIA, 5,612-5,614' GRAY DOL, 5,614-5,623', 5,623-5,642' ALGAL LS, 5,642-5,654' GRAY LS.
- 12-26-82 5,842' MADE 112' IN DESERT CREEK FORMATION. MW 10.3, VIS 50. DRLD TO 5,805'. CBU. POH. PU 60' CORE BBL. RIH. CORING W/NO PROB.
- 12-27-82 5,895' MADE 53' IN AKAH FORMATION. MW 10.5, VIS 45. FIN CORING TO 5,865'. POH. LD CORE & CORE BBL. REC 58' CORE. RIH W/BIT. WASH & REAM 60' TO BTM. DRLD TO 5,895'. CIRC 1/2 HR. SHORT TRIP 10 STDS W/NO DRAG. CUB. DROP SURV. POH F/LOGS. CORE #5: 5,805-5,806' GRAY DOL, 5,806-5,809' DOL SH-1' W/GOOD CUT, 5,809-5,818' LIMY DOL 1' W/GOOD FLUOR & CUT, 5,818-5,819' ANHYDRITE, 5,819-5,823' DOL, 5,823-26' DOL SH, 5,826-5,830' ANHYDRITE, 5,830-48' LS & DOL - 3' GOOD FLUOR & CUT W/BUBBLING GAS, 5,848-63' DOLOMITIC SHALE.
- 12-28-82 5,895' MADE 0' IN AKAH FORMATION. MW 10.3, VIS 50. FIN POH F/LOGS. SLM NO CORRECTION. RIG SCHL RUN #1 CNL-FDC. LOGGERS T.D. @ 5,895'. RUN #2 DLL-MSFL. RUN #3 BHC SONIC. RIH. CIRC BTMS UP. MADE 10 STND SHORT TRIP OK. LD DP.
- 12-29-82 5,895' MADE 0' IN AKAH FORMATION. FIN LD DC'S. RIG UP CSG CREW & RAN 138 JTS. 5-1/2", 20#, N-80 W/FLT SHOE, FLT CLR & 8 CENTRALIZERS. CIRC. 1 HR. MIX & PUMP 1,000 SX DOWELL LITE W/2% CACL2 & 516 SX CLASS "B" W/1% D-60. DISPL W/129.5 BBLS WTR DISPL PRESS 1,500 PSI. BUMP PLUG W/2,000# FLTS HELD OK. LAND CSG @ 5,895' W/85,000# ON SLIPS. UP BOP'S CUT OFF CSG & SET WKM 10" 3,000# X 6" 5,000# CSG SPOOL. TEST SEALS TO 5,000# ON HEAD, OK. CLN MUD PITS & RELEASED RIG @ 10:30 P.M., 12-28-82.

TINCUP MESA #3-23

- 12-17-82 5,092' MADE 192' IN HONAKER TRAIL FORMATION. MW 10.2, VIS 45. DRLD TO 4,945'. POH. SLM 4,944', NO CORRECTION. RIH, WASH 60' TO BTM.
- 12-18-82 5,370' MADE 278' IN PARADOX FORMATION. MW 10.5, VIS 46. DRLG AHEAD @ 12'/HR W/NO PROBLEMS.
- 12-19-82 5,510' MADE 140' IN PARADOX FORMATION. MW 10.3, VIS 44. DRLD TO 5,395', SHORT TRIP 10 STNDS, OK. DRLD TO 5,493'. POH F/BIT #6. PU JUNK BSKT. RIH, WORK JUNK BSKT. PRESENTLY DRLG AHEAD W/NO PROB. LITH: 70% SHALE, DARK TO MED GRAY, 30% LIMESTONE, LT TO MED GRAY W/TRACE YELLOW FLUOR 5,480'-5,490', NO CUT. BGG: 4 TO 10 UNITS. SHORT TRIP GAS: 5 U @ 5,395'. TRIP GAS @ 5,493'-38 UNITS. CONN GAS: 0.
- 12-20-82 5,553' MADE 43' IN UPPER ISMAY FORMATION. MW 10.0, VIS 95. DRLD TO 5,532'. CIRC, POH. SLM 5,532'. PU 30' CORE BBL. RIH. CUT 20' CORE #1. POH. LD CORE BBL. REC 19-1/2' CORE, CORE CONTAINED 75-80% ANNHYDRITE, 20-25% DOLOMITE. TOP 2' HAD TR OF FLUOR, GOOD CUT. REMAINDER OF CORE HAD RARE TR OF FLUOR W/WEAK OR NO CUT. LAST FT 5,551'-5,552' WAS 95% ANNHYDRITE, 5% DOLOMITE. PU SS, BIT #6 & RIH. DRLD 1'. PRESENTLY CIRC TO COND MUD. LITH: BGG: 3-5 U, CONN & TRIP GAS 0 UNITS.
- 12-21-82 5,574' MADE 21' IN UPPER ISMAY FORMATION. MW 9.9, VIS 45. CIRC & COND HOLE. WAIT ON ORDERS. POH, PU CORE BBL. RIH CUT CORE #2 5,553'-5,573'. POH, LD CORE & CORE BBL REC 17-1/2' CORE, CORE CONTAINED 95% ANNHYDRITE, CLR & WHITE & 5% DOLOMITE, BRN & FIRM. HAD RARE TR FLUORESCENCE, NO CUT W/WEAK CUT 5,555-56', 61-62' & 66-67'. PU JUNK BSKT, SS & BIT. RIH. DRLD UP CORE & 1' FORMATION. PRESENTLY CIRC & COND MUD. BGG: 4 UNITS. TRIP GAS: 5,574'-16 UNITS, CONN GAS: 0 UNITS.
- 12-22-82 5,594' MADE 20' IN UPPER ISMAY FORMATION. MW 10.2, VIS 45. CIRC. POH. PU CORE BBL. RIH, WASH TO BTM. CUT CORE #3 - 5,574'-5,594'. GAIN 15 BBLS PIT VOL. MW DEC 10.2 TO 9.9 PPG. CIRC & COND MUD TO 10.3. POH, LD CORE REC 20'. CORE DESCRIPTION: UPPER 5' - ANNHYDRITE, LOWER 15' - DOLOMITE W/GOOD FLUOR & CUT. SHOWS - 5,580' - 19 UNIT C1 - .466%. PRESENTLY RIH W/BIT.
- 12-23-82 5,594' MADE 0' IN UPPER ISMAY FORMATION. MW 10.3, VIS 45. RIH. CIRC. PULLED 5 STDS. CIRC. RIH 5 STDS. CIRC. POH. PU DST TOOLS. RIH. PKRS TO BE SET @ 5,533' & 5,527'.
- 12-24-82 5,614' MADE 20' IN UPPER ISMAY FORMATION. MW 10.2, VIS 48. FIN RIH W/DST TOOLS. SET PKRS @ 5,533' & 5,527'. IF 16 MIN, ISI 60 MIN, FF 180 MIN, FSI 60 MIN. HAD WEAK BLOW ON IF. HAD VERY SLIGHT BLOW FOR 10 MIN ON FF THEN DIEN. THEN 70 MIN INTO FF HAD GOOD BLOW @ BTM OF BUBBLE BUCKET. NO GAS TO SURF DURING FF. GOT GAS IMMEDIATELY INTO FSI & HAD 6" FLARE. HAD 2# ON 13/64" CHOKE ON FF. POH. REC. 300' OF SLIGHTLY GAS CUT MUD, 180' OF SLIGHTLY OIL & LIGHTLY GAS CUT MUD. LD DST TOOLS. PU 60' CORE BBL. RIH. CORING NO PROB. SAMPLE CHAMBER: 2100 CC OF OIL & GAS CUT MUD. 5.8 CU FT OF GAS. PRESS = 500 PSI. PRESSURES: IFP = 53#, ISIP = 1,992#, FFP = 185#, FSIP = 1,582#, IHP = 3,055#, FHP = 3,028#. BGG: 200 U. TRIP GAS: 3,100 U.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☐DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Marathon Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)

At surface

1,055.07' FSL & 4,014.20' FEL, SWSW

At proposed prod. zone:

2051' FSL & 612' FWL, NWSW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

9 miles northwest of Hatch's Trading Post, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1,055'

16. NO. OF ACRES IN LEASE

760

17. NO. OF ACRES ASSIGNED
TO THIS WELL

80

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

5,940' (Est.)

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,178.31' Ungraded Ground

22. APPROX. DATE WORK WILL START*

October 1, 1982

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Please see Item 4 of 10-Point for complete casing and cementing record				

1. Surveyor's plat and rig laydown
2. Ten-Point Drilling Program
3. BOP Schematic
4. Thirteen-Point Surface Plan
5. Maps and Diagrams

RECEIVED
SEP 17 1982

The person responsible for the NTL-6 is:

Walt West

Government Compliance

Marathon Oil Company

OFFICE: (307) 577-1555

HOME: (307) 235-1420

DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Walt West

TITLE

District Operations Manager

DATE

September 13, 1982

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

DATE:

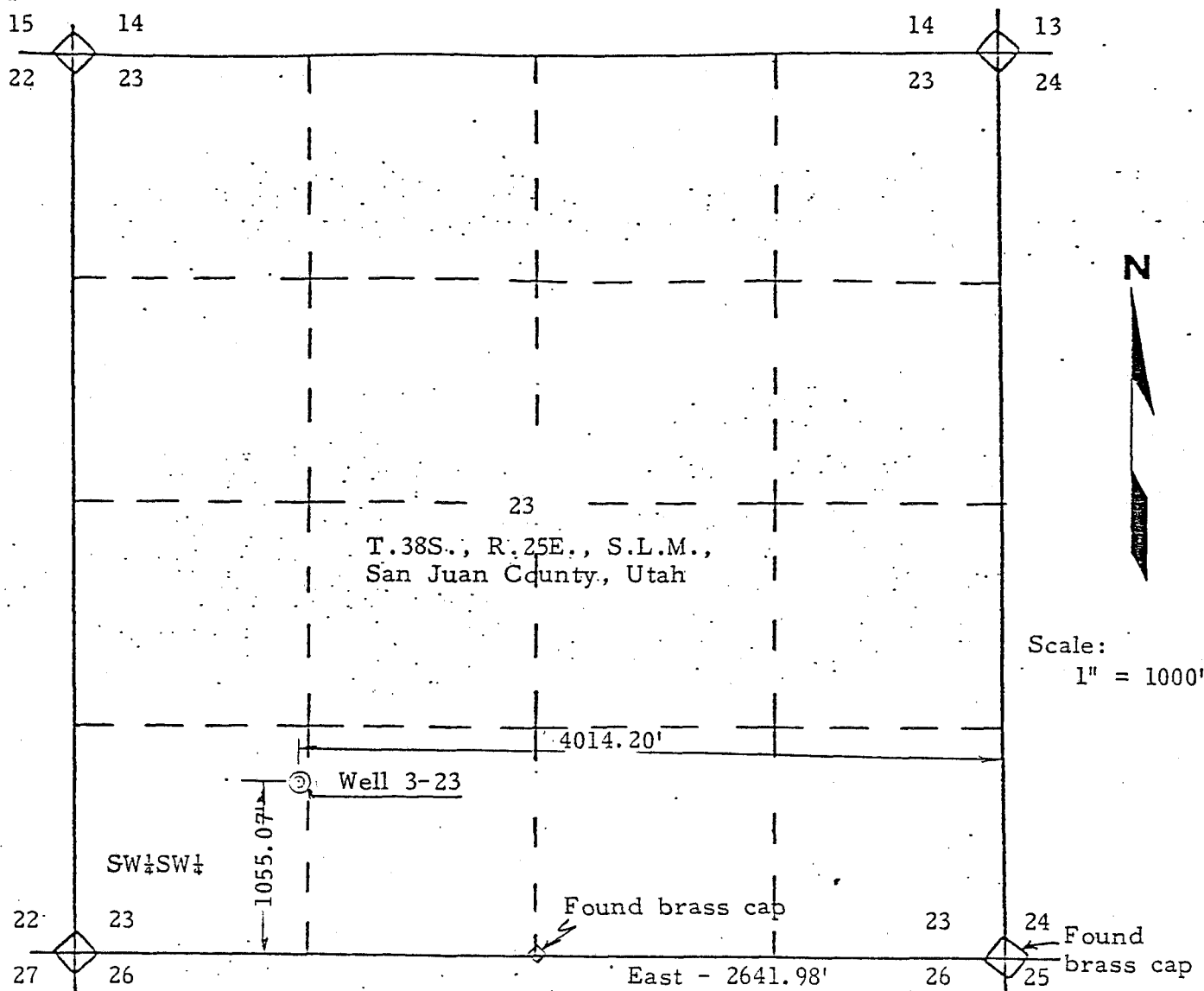
9-20-82

BY:

Walt West

*See Instructions On Reverse Side

July 9, 1982



Basis of bearing is the East-West bearing between the USGLO brass caps on the S $\frac{1}{4}$ Corner and the SE Corner of Section 23.

I, Fredric P. Thomas, of Cortez, Colorado, do hereby certify that in accordance with a request from Walt West, of Casper, Wyoming, for Marathon Oil Company, I made a survey on the 29th day of June, 1982, for location and elevation of the Tincup Mesa Unit Well No. 3-23. As shown on the above map, the wellsite is in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 23, Township 38 South, Range 25 East of the Salt Lake Meridian, San Juan County, Utah. The elevation is 5178.31 feet, ungraded ground, elevation datum is the ungraded ground elevation on Well No. 1-26, which is elev. 5112.

REFERENCE POINT,	<u>S.60°E. - 300'</u>	, Rebar and lath, elev. top of rebar =	<u>5156.19</u>	feet.
REFERENCE POINT,	<u>N.60°W. - 300'</u>	, Rebar and lath, elev. top of rebar =	<u>5225.22</u>	feet.
REFERENCE POINT,	<u>S.30°W. - 300'</u>	, Rebar and lath, elev. top of rebar =	<u>5209.02</u>	feet.
REFERENCE POINT,	<u>N.30°E. - 300'</u>	, Rebar and lath, elev. top of rebar =	<u>5143.88</u>	feet.

Thomas Engineering, Inc.
215 No. Linden
Cortez, Colorado 81321
303-565-4496

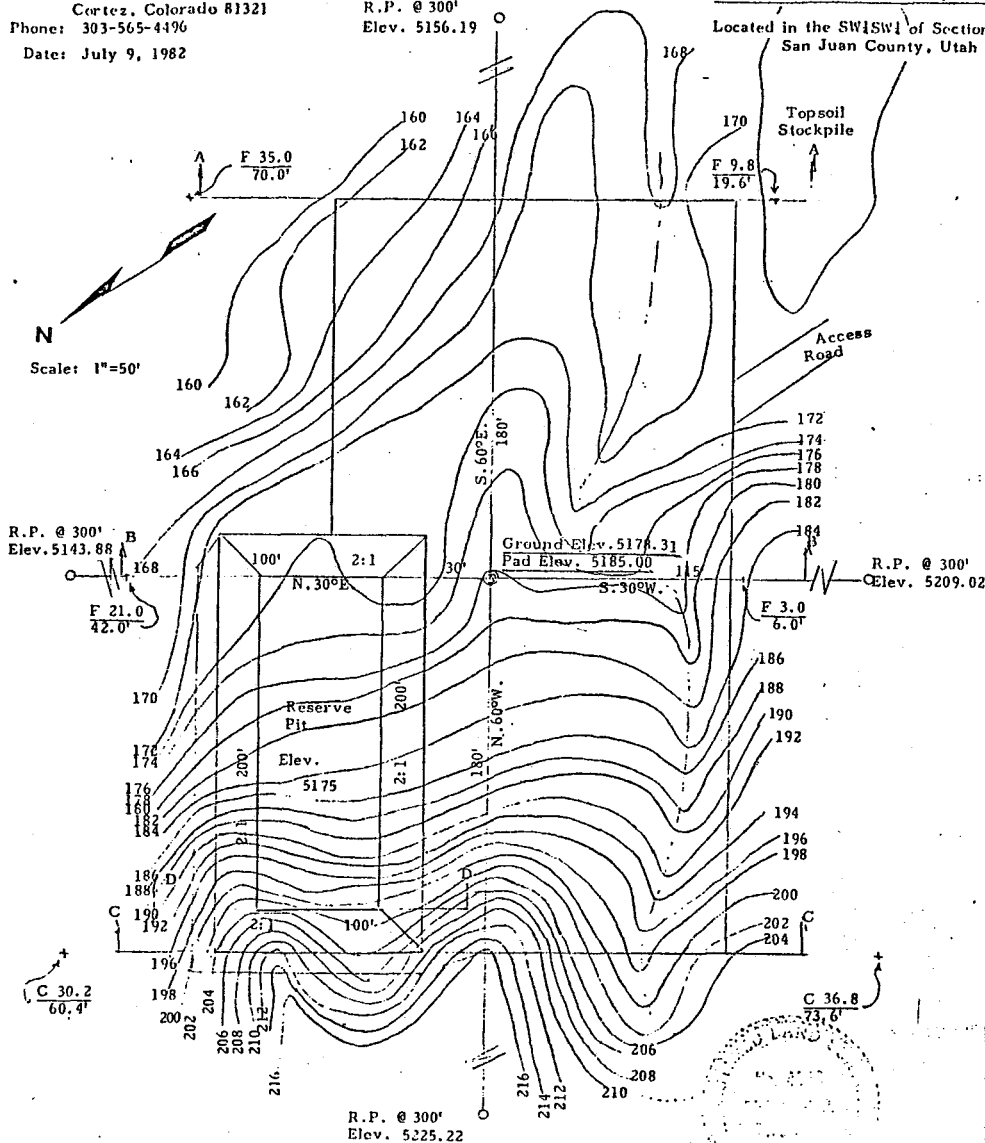
Fredric P. Thomas
Fredric P. Thomas, PE-63
No. 4346
THOMAS
Cortez, Colo. Reg. No. 6728

Prepared by: Thomas Engineering, Inc.
 215 No. Linden
 Cortez, Colorado 81321
 Phone: 303-565-4496
 Date: July 9, 1982

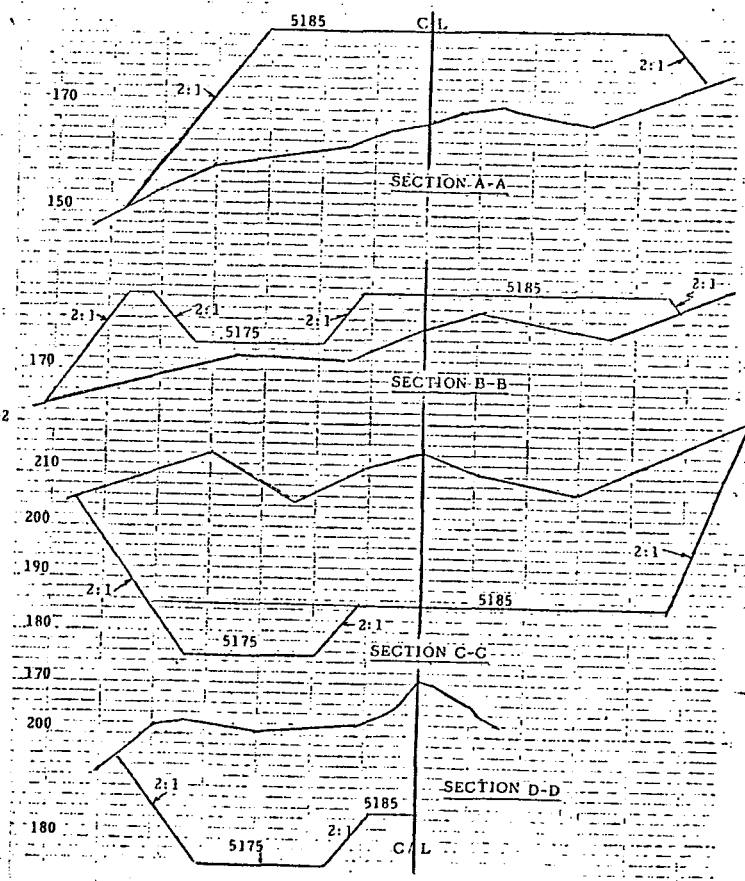
R.P. @ 300'
 Elev. 5156.19

MARATHON OIL COMPANY, TINCUP MESA UNIT, WELL NO. 3-23
 Located in the SW1SW1 of Section 23, T.38S., R.25E., S.L.M.,
 San Juan County, Utah

MAP TO ACCOMPANY PERMIT TO DRILL
 Applicant: Marathon Oil Company
 Date of preparation: July 9, 1982



CROSS-SECTION OF LAYDOWN DIRECTION AND RESERVE PIT
 Horizontal scale: 1" = 50' Vertical scale: 1" = 20'



TOTAL YARDAGE

Cut = 24,749 C.Y. Fill = 21,135 C.Y. Topsoil = 1,500 C.Y.
 Spoil pile = 0 Reserve pit capacity = 25,650 barrels
 Shrinkage factor: 1.10

MARATHON OIL COMPANY
DRILLING OPERATIONS PLAN

DATE: September 13, 1982

WELL NAME: Tin Cup Mesa #3-23

LOCATION: 1,055.07' FSL & 4,014.20' FEL, Section 23, T38S, R25E,
San Juan County, Utah

1. Geologic name of the surface formation:

Jurassic Morrison Formation

2. Estimated tops of important geological markers:

<u>Formation</u>	<u>TVD</u>	<u>MD</u>	<u>Formation</u>	<u>TVD</u>	<u>MD</u>
Carmel	831'	831'	Paradox	5,294'	5,420'
Navajo	857'	857'	U. Ismay	5,449'	5,580'
Kayenta	1,076'	1,078'	Hovenweep	5,598'	5,734'
Wingate	1,240'	1,244'	L. Ismay	5,636'	5,772'
Chinle	1,595'	1,608'	Gothic Shale	5,683'	5,821'
Shinarump	2,394'	2,432'	Desert Creek	5,702'	5,841'
Moenkopi	2,448'	2,487'	Chimney Rock	5,777'	5,918'
Cutler	2,514'	2,555'	Akah	5,798'	5,940'
Honaker Trail	4,354'	4,452'	P.T.D.*	5,800'	5,942'

*If significant hydrocarbon shows are encountered, the well will be T.D.'d at about 5,940 (MD) feet to avoid entering the Akah Salt.

3. Estimated depths at which oil, water, gas, or other mineral bearing formations are expected to be encountered:

<u>Formation</u>	<u>TVD</u>	<u>MD</u>	<u>Content</u>
Carmel	831'	831'	Water
Navajo	857'	857'	Water
Wingate	1,240'	1,244'	Water
DeChelly**	2,514'	2,555'	Brine
Honaker Trail	4,354'	4,452'	Oil***
Paradox	5,294'	5,420'	Brine
Upper Ismay	5,449'	5,580'	Oil***
Lower Ismay	5,636'	5,772'	Oil***
Desert Creek	5,702'	5,841'	Oil***

** The Cutler Formation may contain the DeChelly member.

*** Primary Objectives.

MARATHON OIL COMPANY
 DRILLING OPERATIONS PLAN
 PAGE TWO

4. The Proposed Casing Program:

Casing Design

<u>CASING STRING</u>	<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE AND JOINT</u>	<u>NEW OR USED</u>	<u>MUD WEIGHT</u>	<u>1000# TENSION LOAD</u>	<u>SF_t</u>	<u>SF_c</u>	<u>SF_b</u>
Conductor	20"	0'-80'	80'	16"	Thinwall	New					
Surface	12-1/4"	0'-1,500'	1,500'	9-5/8"	36#, K-55	New	8.5- 9.0	46.8	9.03	2.73	1.26
Intermediate	8-3/4"	1,500'-5,942'	5,942'	5-1/2"	15.5#, K-55	New	9.4-10.8 10.8-11.2	76.9	3.23	1.18	1.66

* If more than one productive zone is found, 7" production casing will be set.

If only the Desert Creek is productive, 5-1/2", N-80, 20#/ft, STC will be set so as to accommodate fracture stimulation in the formation.

Cement Program:

9-5/8" Casing

Cement Volume: 1,500' x .3132 cu. ft/ft x 2.0 excess = 940 cu. ft.

Lead Slurry: 1,000' calculated plus 100% excess - 341 sacks of high yield cement (BJ Lite, Halliburton Lite, etc.) containing 1/4# sack cellophane flakes and 2% CaCl₂.

Slurry Yield: 1.84 cu. ft/sack

Slurry Density: 12.7#/gal

Water Requirement: 9.9 gal/sack

Tail Slurry: 500' calculated plus 100% excess - 266 sacks of Class "B" cement containing 1/4# sack cellophane flakes and 2% CaCl₂.

Slurry Yield: 1.18 cu. ft/sack

Slurry Density: 15.6#/gal

Water Requirement: 5.2 gal/sack

Casing Equipment: Float shoe, float collar, 3 centralizers.

WOC time will be a minimum of 6 hrs. If float equipment holds, closed-in pressure after cementing is not recommended.

Cement Program (continued):

5-1/2" Casing

1st Stage:

Cement Volume: $2,500' \times .2526 \text{ cu. ft/ft} \times 1.35 \text{ excess} = 853 \text{ cu. ft.}$

Slurry: 2,500' calculated plus 35% excess from logs - 723 sacks of Class "B" cement containing 1.0% fluid loss additive (D-19, Halad-9, etc.).

2nd Stage:

Cement Volume: $2,442' \times .2526 \text{ cu. ft/ft} \times 1.35 \text{ excess} = 833 \text{ cu.ft.}$

Slurry: 2,442' calculated (500' into 9-5/8" casing) plus 35% excess from logs 453 sacks of high yield cement (BJ Lite, Halliburton Lite, etc.).

Casing Equipment: Locate stage collar at 3,442'. A float shoe, flapper type float collar, 1 cement basket, and 10 centralizers spaced over the bottom 800' of the hole will be used. If float holds, closed-in pressure after completion of cement job is not recommended. Set casing on slips as soon as possible following cement job.

Slurry Preflush: 1st and 2nd Stage 20 bbls.

5. Pressure Control Equipment:

B.O.P. equipment will include a double-ram preventer with pipe and blind rams and a rotating head (API arrangement SRdG). All equipment will have a 3,000 psi or greater working pressure. Rams, valves, lines, choke manifold and casing will be tested to 200 psi for 5 minutes and 1,500 psi for 15 minutes prior to drilling out from under 9-5/8" surface casing. After drilling casing shoe and 5 feet of additional hole, a shoe test will be performed to 13.5 ppg equivalent mud weight or leakoff, whichever occurs first. The accumulator should be of sufficient capacity to meet the following requirements:

1. Ability of immediate closure to all members of the stack without recharging.
2. A total of 50% of the original fluid should remain as a reserve after accumulator activation.
3. A minimum pressure of 1,200 psi is required to insure that the preventers remain closed.

Visual checks of the equipment will be made tourly. Function pipe rams daily and blind rams on trips.

Mud weights should be kept to a minimum to maximize ROP and minimize lost circulation. However, the existence of water flows may necessitate an increase in mud weight while drilling. Sufficient barite should be on location prior to spud in order to increase mud weight to 11.7 ppg if required. Lost circulation is expected in the upper hole before setting surface casing.

6. Drilling Mud Program:

<u>From</u>	<u>To</u>	<u>Type Mud</u>	<u>Weight</u>	<u>% Oil</u>	<u>Water Loss</u>
0'	1,500'	Spud	8.5-9.0	0	No Control
1,500'	Cutler 2,514'	Gel/Water	8.5-9.0	0	No Control
Cutler 2,514'	U. Ismay 5,449'	Gel/Chemical	9.4-10.8	0	10.0-12.0 ccs
U. Ismay 5,449'	T.D.	Gel/Chemical	10.8-11.2	0	8.0-9.0 ccs

7. Auxilliary Equipment Required:

A drilling rate recorder, calibrated to record drilling time for each one foot drilled will be used.

A Kelly cock will be used and a full opening safety valve will be available on the rig floor.

The mud system will include a desander/desilter, gas buster, or degasser.
A manual adjustable choke will be used.

Deviation Control:

Surface Location: 1,055' FSL, 1,266' FWL, Section 23, T38S, R25E *SW 4W*
Target Location: 1,980' FSL, 660' FWL, Section 23, T38S, R25E *NW 5W*
Bottom Hole Location: 2,051' FSL, 612' FWL, Section 23, T38S, R25E *NW 5W*
Kick Off Point: 500'
Rate of Build: 3°/100'
Maximum Angle: 13° 49'
Azimuth: N33.13W
See attached plat for well plan.

8. Testing, Logging, Coring, and Fracing Program:

Samples: 10' intervals from 1,500' to T.D. with a two-man mud logging unit.

Logging: 1. DI-SFL/GR from surface casing to T.D.
2. BHC Sonic/GR from surface casing to T.D.
3. FDC/CNL-GR from surface casing to T.D.
4. Dipmeter from surface casing to T.D.
5. Coriband (Cyber look) from top of Honaker Trail Formation to T.D.

Testing: 1. Honaker Trail
2. Upper Ismay
3. Desert Creek

Coring: Approximately 300' of core in intervals to be determined from Formation tops while drilling.

Fracing Program:

If necessary, acid stimulation.

9. Abnormal Conditions:

The DeChelly Member of the Cutler Formation, if penetrated, may contain overpressured salt water requiring 10.5 to 11.5 ppg mud weight to control.

Maximum anticipated bottom hole pressure is approximately 3,450 psi.

Maximum anticipated bottom hole temperature is approximately 145°F.

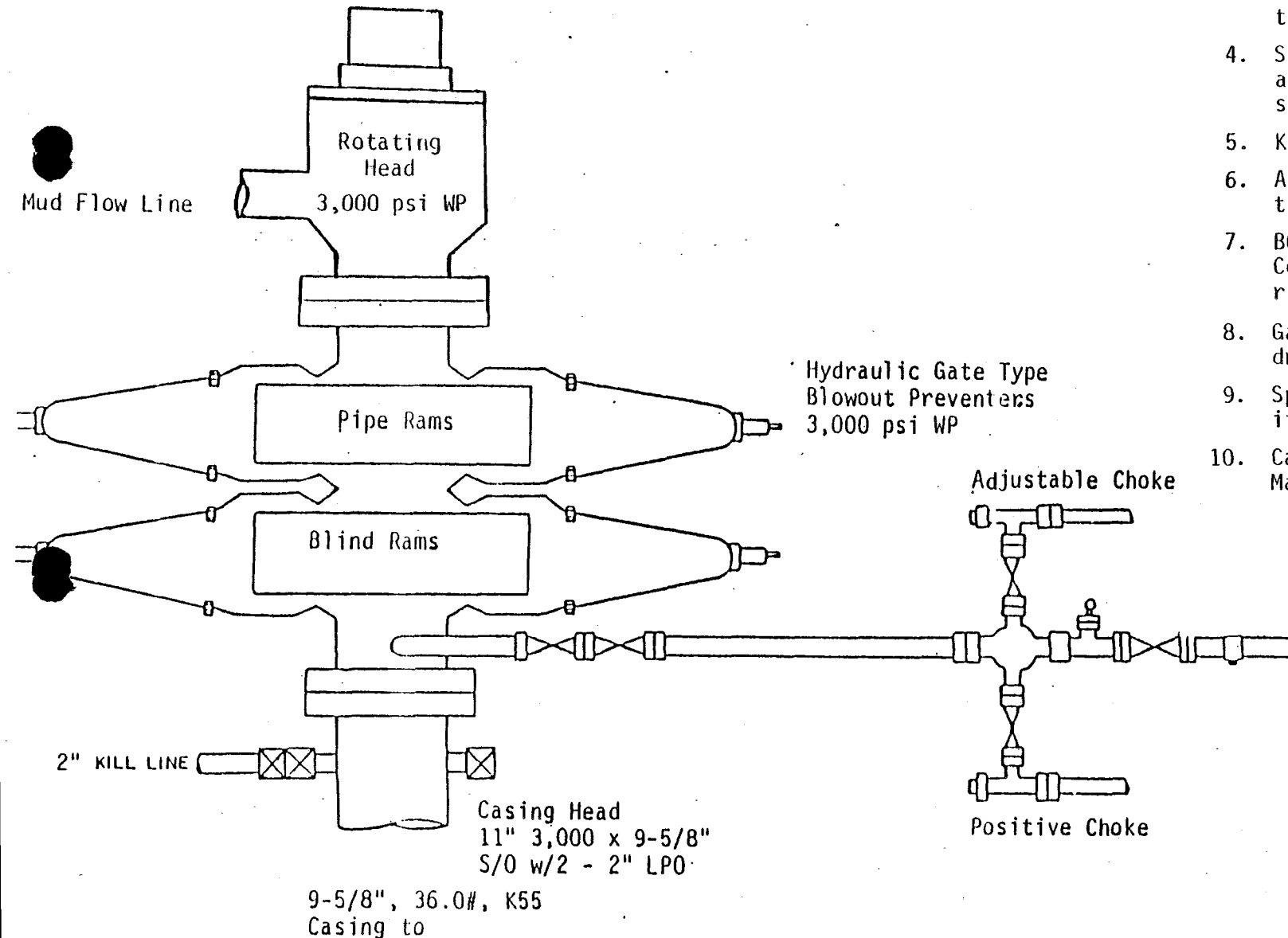
10. Anticipated Starting Date and Duration:

Starting Date: October 1, 1982

Duration: 45 Days

Name ME Kugh
Title Drilling Superintendent
Date 9-10-82

Tin Cup Mesa #3-23
NE, SW, SW, Sec. 23, T38S, R25E
San Juan Co., Utah



1. Blowout preventers, master valve, plug valve and all fittings must be in good condition. Use new API Seal Rings.
2. All fittings (gates, valves, etc.) to be of equivalent pressure rating as preventers. Valves to be flanged and at least 2" unless otherwise specified. Valves next to BOP to be plug type and nominal 3".
3. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
4. Safety valve must be available on rig floor at all times and with proper connections. The I.D. of safety valves should be as great as I.D. of tool joints on drill pipe.
5. Kelly safety valve installed, same working pressure as BOP's.
6. All lines and controls to preventers must be connected and tested before drilling out of surface pipe.
7. BOP's must be fluid operated, complete with accumulator. Controls may be either on floor or ground near steps from rig floor.
8. Gauge will be installed for testing but removed while drilling.
9. Spool not required, but when side outlet on BOP's is used, it must be below bottom ram.
10. Casinghead and casinghead fittings to be furnished by Marathon Oil Company.

500' V.D. K.O.P.

BUILD 3" / 100'

13° 49' 580' M.D. 55° DEV.

1042' NORTH 682' WEST

970' NORTH 635' WEST

1000

800

600

400

200

900

1300

1700

2100

2500

2900

3300

3700

4100

4500

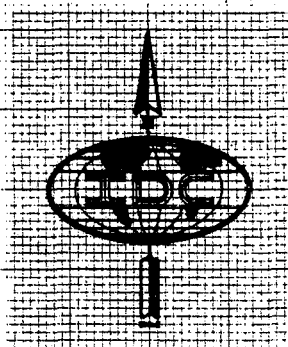
4900

5300

5440' V.D.

5900' V.D.

HOLD 13° 49'



1" = 100'

AVERAGE ANGLE

600

400

200

N 33° 13' W

13° 49' 580' M.D. 118° DEV.

MARATHON OIL CO.

SAN JUAN COUNTY, UTAH

TIN OUP MESA #3-23

SCALE 1" = 200'

MARATHON OIL COMPANY
SURFACE USE & OPERATIONS PLAN

DATE: September 13, 1982

WELL NAME: Tin Cup Mesa #3-23

LOCATION: 1,055.07' FSL & 4,014.20' FEL, Section 23, T38S, R25E, San Juan County, Utah.

#1 Existing Roads:

- A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes.)

See survey plat

- B. Route and distance from nearest town and locatable reference point to where well access route leaves main road.

9 miles northwest of Hatch's Trading Post, Utah.
See Diagram "A".

- C. Access road(s) to location color-coded or labeled.

See map Diagram "A", color-coded green

- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.).

See map Diagram "A"

- E. If development well, all existing roads within a 1-mile radius of well site.

See map Diagram "A"

- F. Plans for improvement and/or maintenance of existing roads.

Blade work on county roads will be in conjunction with San Juan County Road Department, Monticello, Utah; also, any roads tying into county roads will be to BLM stipulations.

#2 Planned Access Roads:

Map showing all necessary access roads to be constructed or reconstructed, showing:

- | | |
|---|--|
| (1) Width | 18' |
| (2) Maximum grades | 0-50 |
| (3) Turnouts | None |
| (4) Drainage design | Ditched and crowned, trailer ditches where needed. |
| (5) Location and size of culverts and brief description of any major cuts and fills. | |
| | None |
| (6) Surfacing material | |
| | Gravel |
| (7) Necessary gates, cattleguards, or fence cuts. | |
| | No cattleguards or fence cuts |
| (8) (New or reconstructed roads are to be center-line flagged at time of location staking.) | |

Flagged with hot orange and blue flagging material. Entire area was walked by archeologist from BYU.

#3 Location of Existing Wells:

Two-mile radius map if exploratory, or 1-mile radius map if development well, showing and identifying existing:

- (1) Water wells None
- (2) Abandoned wells None
- (3) Temporary abandoned wells Tin Cup Mesa #1-25
- (4) Disposal wells None
- (5) Drilling wells #1-23
- (6) Producing wells Tin Cup Mesa #3-26 (Testing)
- (7) Shut-in wells None
- (8) Injection wells None
- (9) Monitoring or observation wells for other resources.

#4 Location of Existing and/or Proposed Facilities:

A. Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

- (1) Tank Batteries Tin Cup Mesa #1-25
- (2) Production Facilities (MOC) #1-25
- (3) Gathering Lines None
- (4) Gas Gathering Lines None
- (5) Injection Lines (indicate if any of the above lines are buried).
None
- (6) Disposal Lines None

B. If new facilities are contemplated, in the event of production, show:

- (1) Proposed location and attendant lines by flagging if off of well pad.

Adjacent to the access road and as close to the proposed drill site as possible, without setting on any fill.

- (2) Dimensions of Facilities

See proposed Diagram "B"

- (3) Construction methods and materials

Good engineering practices will be used in construction. Materials will be obtained through local vendors and contractors.

- (4) Protective measures and devices to protect livestock and wildlife.

Woven wire fences of the pit area.

- C. Plans for rehabilitation of disturbed areas no longer needed for operations after construction completed.

Drill site and tank battery area will be reshaped to conform with the topography. Top soil will be distributed at the proper time. Disturbed areas scarified with contours to a depth of 12". Seeds will be broadcast, as per BLM recommendations.

#5 Location and Type of Water Supply:

- A. Show location and type of water supply either on map or by written description.

See map Diagram "A"
Section 28, T38S, R26E (Artesian water wells)
Section 35, T38S, R25E

- B. State method of transporting water, and show any roads or pipelines needed.

Existing roads and access road will be used to haul water to the location.

- C. If water well is to be drilled on lease, so state. (No APD for water well necessary, however, unless it will penetrate potential hydrocarbon horizons.)

No water well will be drilled.

#6 Source of Construction Materials:

- A. Show information either on map or by written description.

Construction materials will be native soils.

- B. Identify if from Federal or Indian Land.

None

- C. Describe where materials, such as sand, gravel, stone and soil material, are to be obtained and used.

Any needed materials will be discussed with Mr. Bob Turri or Mr. Brian Wood of BLM, Monticello, Utah.

- D. Show any needed access roads crossing Federal or Indian Lands under Item 2.

None

#7 Methods of Handling Waste Disposal:

Describe methods and location of proposed containment and disposal of waste material, including:

- | | |
|----------------------------------|-------------|
| (1) Cuttings | Reserve Pit |
| (2) Drilling fluids | Reserve Pit |
| (3) Produced fluids (oil, water) | Swab Tanks |

- (4) Sewage Porta Pot
- (5) Garbage and other waste material (trash pits will be completely contained with small mesh wire to prevent wind scattering trash before being burned or buried).

There will be a 10' x 10' burn pit and it will be woven wire fenced.

- (6) Statement regarding proper cleanup of well site area when rig moves out.

Area will be cleaned up and all burnable material will be put in the burn pit and burned. Non-burnable debris will be buried under 2' of compacted earth. Burn permit will be obtained from State Fire Warden, John Baker. (May 1 - October 31)

#8 Ancillary Facilities:

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods. (Camp center and airstrip center lines to be staked on the ground.)

None

#9 Wellsite Layout:

A plat (not less than 1" = 50') showing:

- (1) Cross sections of drill pad with cuts and fills.

See Diagram "C"

- (2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities and soil material stockpiles.

See Diagram "D"

- (3) Rig orientation, parking areas, and access roads.

See Diagram "D"

- (4) Statement as to whether pits are to be lined or unlined.
(Approval as used in this section means field approval of location. All necessary staking of facilities may be done at time of field inspection.) A registered surveyor is not mandatory for such operations.

Pit will not be lined. Dirt contractor will notify Mr. Bob Turri of BLM when the pit is made.

#10 Plans for Restoration of Surface:

State restoration program upon completion of operations, including:

- (1) Backfilling, leveling, contouring, and waste disposal; segregation of spoils materials as needed.

Site will be cleaned and waste materials put in trash burn pit, which will be covered with 2' of compacted earth at the finish of drilling operation. Reserve pit will be backfilled as soon as it's dry.

- (2) Revegetation and rehabilitation - including access roads (normally per BLM recommendations).

2#/acre Indian Rice grass; 1#/acre Alkali Sacaton; 1#/acre Fourwing Saltbrush; 2#/acre shade scale. Trees will be scattered evenly over the disturbed areas and walked down with a dozer.

- (3) Prior to rig release, pits will be fenced and so maintained until cleanup.

Reserve pit will be fenced on 3 sides during drilling. At completion of drilling, all pits will be fenced on the remaining side.

- (4) If oil on pit, remove oil or install overhead flagging.

If there is any oil on the reserve pit, it will be removed or flagged with overhead flagging.

- (5) Timetable for commencement and completion of rehabilitation operations.

Depending upon climatic conditions, restoration should be completed from six months to one year after abandoning well.

#11 Other Information:

General Description of:

- (1) Topography, soil characteristics, geologic features, flora and fauna.

Sagebrush, scrub cedars, rock formations, occasionally dissected by light to heavy drainage features. Deer, rabbits, fox, small rodents, cattle, and sheep.

- (2) Other surface use activities and surface ownership of all involved lands.

Access road and drill site are owned by U.S. Government. Surface facilities will be painted Federal Std. #30318, Badlands Brown.

- (3) Proximity of water, occupied dwellings, archeological, historical, or cultural sites.

There is no water or occupied dwelling in the area. Archeological work was performed by BYU, Provo, Utah.

#12 Lessee's or Operator's Representative:

Mike E. Krugh - Marathon Oil Company Office: 307-577-1555, ext 408
P.O. Box 2659 Home: 307-577-1664
Casper, WY 82602

#13 Certification: The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in item No. 12 of the plan:

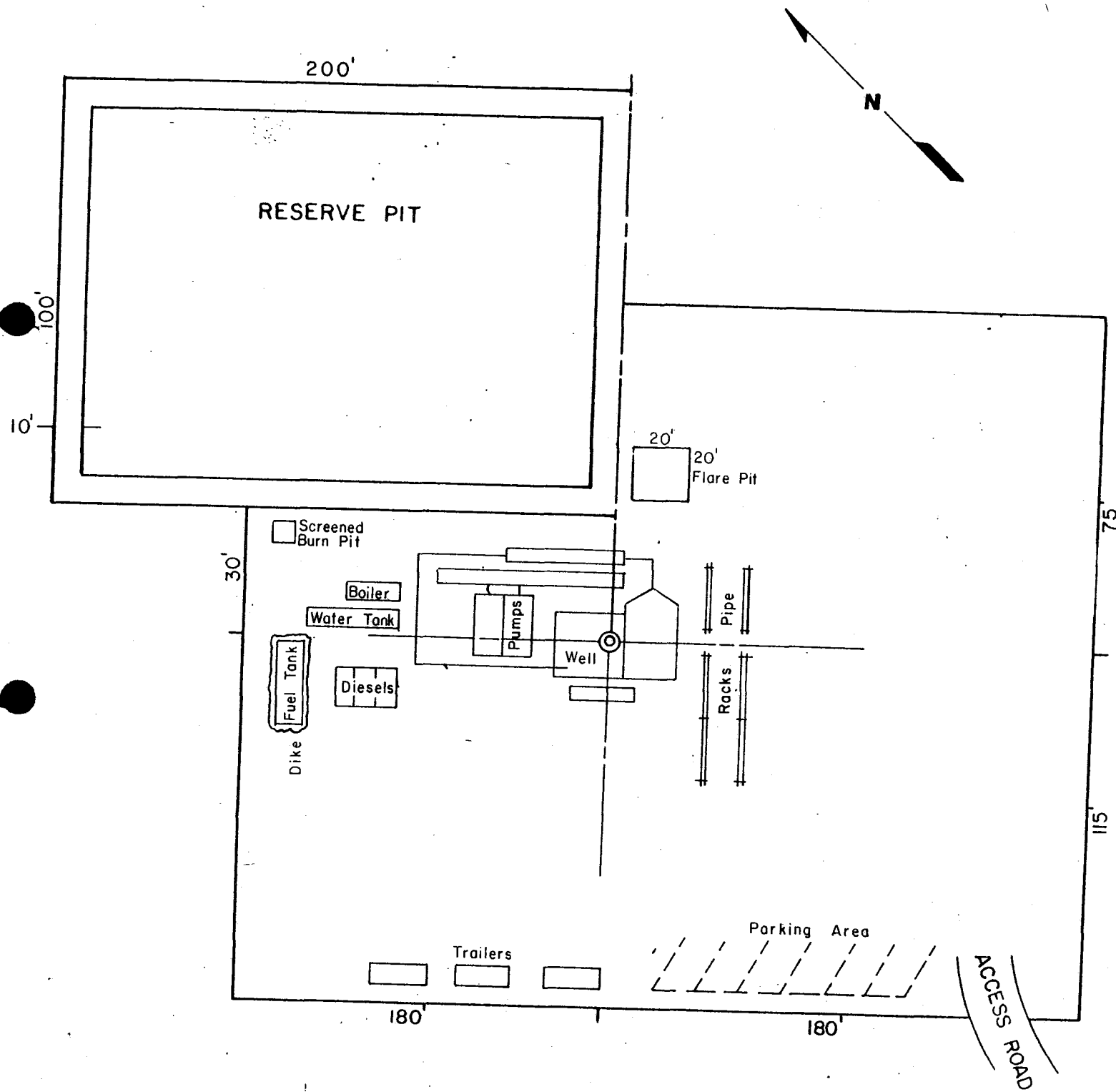
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Marathon Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

9/10/82
Date

Michael E. Krugh
Name
District Drilling Supt
Title

**SCHEMATIC
of
RIG LAYOUT**
Scale 1"=50'
PROPOSED

DIAGRAM **D**

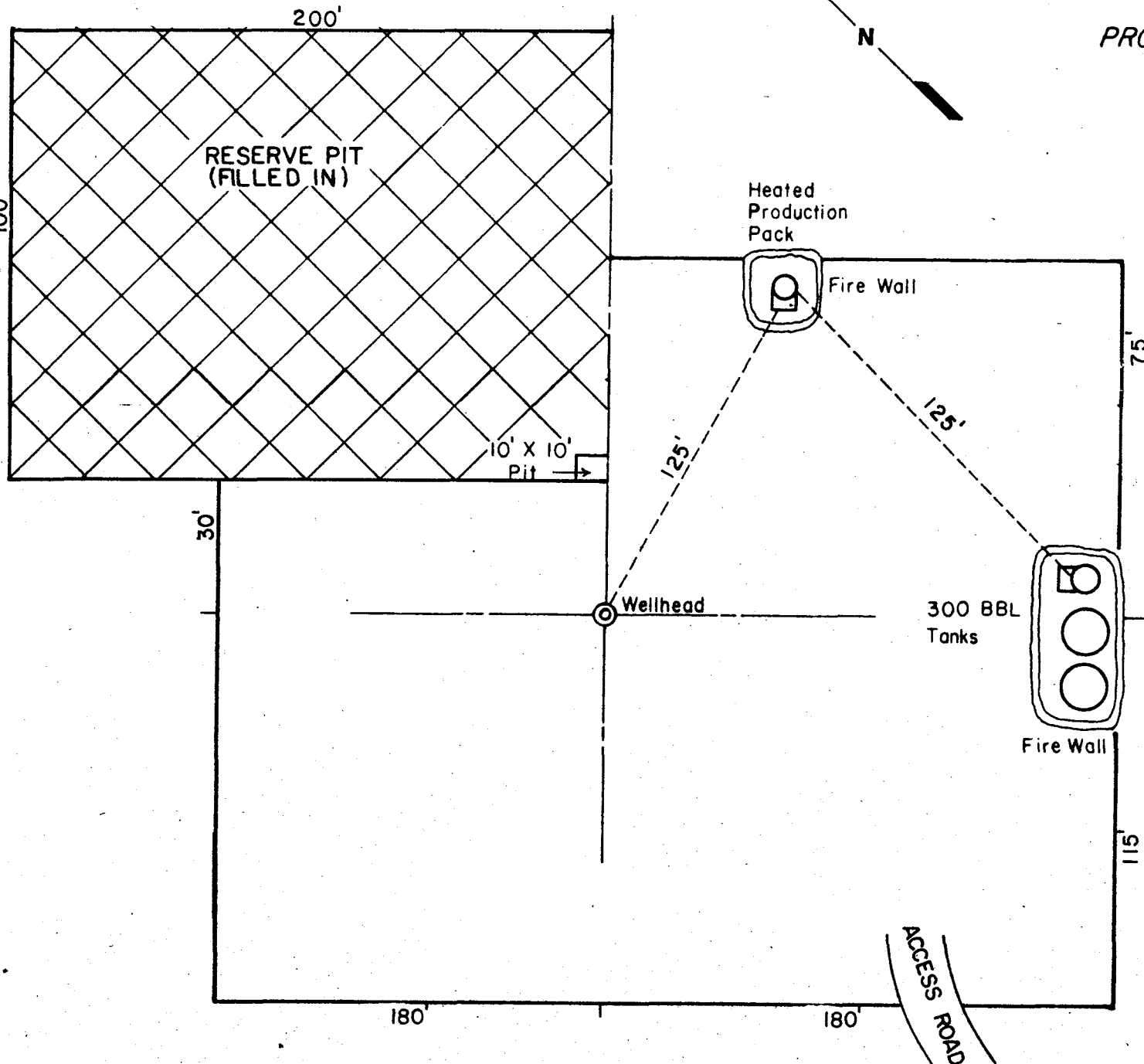


Tin Cup Mesa #3-23
SW SW Sec. 23, T 38S R 25E
1055.07' FSL & 4014.20' FEL
San Juan Co., Utah

SCHEMATIC
of
PRODUCTION FACILITIES

Scale 1"=50'
PROPOSED

DIAGRAM **B**



Tin Cup Mesa #3-23
SW SW Sec. 23, T 38 S R 25 E
1055.07' FSL & 4014.20' FEL
San Juan Co., Utah

OPERATOR MARATHON DATE 9-20-82

WELL NAME TIN CUP MESA 3-23

SEC SW SW 23 T 38 S R 25 E COUNTY SAN JUAN

43-037-30815
API NUMBER

FED
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/>	INDEX	<input checked="" type="checkbox"/>	HL	<input type="checkbox"/>
<input type="checkbox"/>	NID	<input checked="" type="checkbox"/>	PI	<input type="checkbox"/>
<input checked="" type="checkbox"/>	MAP	<input checked="" type="checkbox"/>		<input type="checkbox"/>

PROCESSING COMMENTS:

WILDCAT

OK - 2/10/82

APPROVAL LETTER:

SPACING: ☒ A-3 TIN CUP MESA
4-2-82
UNIT

☐ c-3-a _____ CAUSE NO. & DATE

☐ c-3-b

☐ c-3-c

SPECIAL LANGUAGE:

☒

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒

AUTHENTICATE LEASE AND OPERATOR INFORMATION *FED*

☒

VERIFY ADEQUATE AND PROPER BONDING *FED*

☒

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC. *NO TIN CUP FIELD*

☒

APPLY SPACING CONSIDERATION

☐

ORDER _____

☒

UNIT *TIN CUP MESA* *4-2-82*

☐

c-3-b

☐

c-3-c

☒

OUTSTANDING OR OVERDUE REPORTS FOR OTHER WELLS OF THE OPERATOR.

September 21, 1982

Marathon Oil Company
P. O. Box 2659
Casper, Wyoming 82602

RE: Well No. Tin Cup Mesa 3-23
SWSW Sec. 23, T. 38S, R. 25E
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Engineer
Office: 533-5771
Home: 571-6068

OR

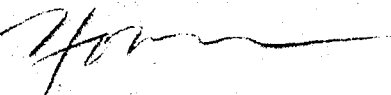
CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30815.

Sincerely,



Norman C. Stout
Administrative Assistant

NCS/as
cc: Minerals Management Service
Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
MINERALS MANAGEMENT
OIL & GAS OPERATIONS
SERVICE
RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL ☐ DEEPEN ☐ PLUG BACK ☐
 b. TYPE OF WELL
 OIL WELL ☒ GAS WELL ☐ OTHER ☐
 SALT LAKE CITY, UTAH
 SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
 Marathon Oil Company

3. ADDRESS OF OPERATOR
 P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface 1,055.07' FSL & 4,014.20' FEL
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 9 miles northwest of Hatch's Trading Post, Utah

15. DISTANCE FROM PROPOSED*
 LOCATION TO NEAREST
 PROPERTY OR LEASE LINE, FT.
 (Also to nearest drlg. unit line, if any) 1,055'

18. DISTANCE FROM PROPOSED LOCATION*
 TO NEAREST WELL, DRILLING, COMPLETED,
 OR APPLIED FOR, ON THIS LEASE, FT.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5,178.31' Ungraded Ground

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Please see Item 4 of 10-Point for complete casing and cementing record				

1. Surveyor's plat and rig laydown
2. Ten-Point Drilling Program
3. BOP Schematic
4. Thirteen-Point Surface Plan
5. Maps and Diagrams

RECEIVED

OCT 01 1982

DIVISION OF
OIL, GAS & MINING

The person responsible for the NTL-6 is: Walt West
 Government Compliance
 Marathon Oil Company
 OFFICE: (307) 577-1555
 HOME: (307) 235-1420

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Dale Cordery TITLE District Operations Manager DATE September 13, 1982
 (This space for Federal or State office use)

PERMIT NO. WT Martin APPROVAL DATE SEP 30 1982
 APPROVED BY E. W. Guynn TITLE District Oil & Gas Supervisor
 CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

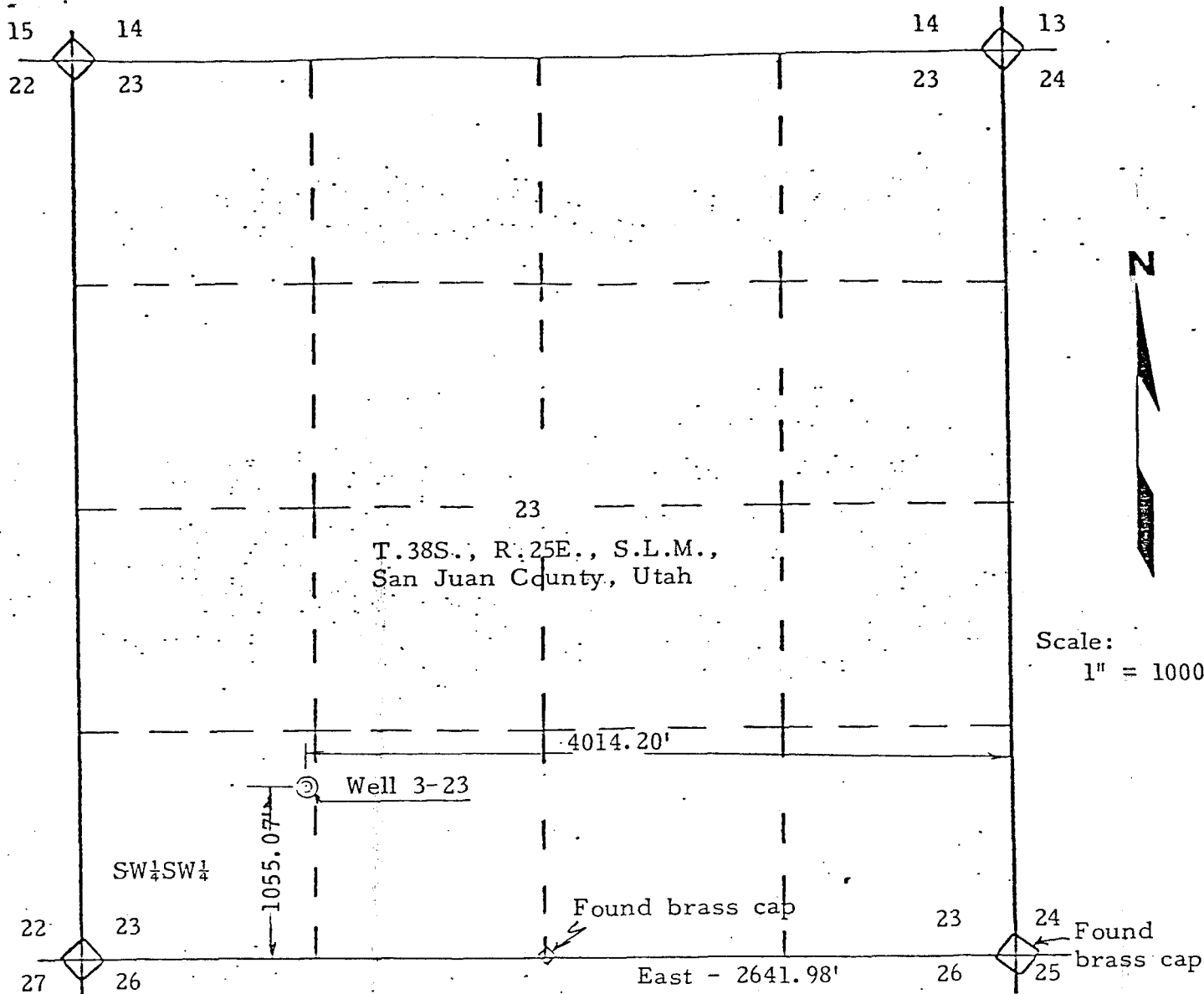
CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

*See Instructions On Reverse Side

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

8 Tubs 04 G

July 9, 1982



Basis of bearing is the East-West bearing between the USGLO brass caps on the S $\frac{1}{4}$ Corner and the SE Corner of Section 23.

I, Fredric P. Thomas, of Cortez, Colorado, do hereby certify that in accordance with a request from Walt West, of Casper, Wyoming, for Marathon Oil Company, I made a survey on the 29th day of June, 1982, for location and elevation of the Tincup Mesa Unit Well No. 3-23. As shown on the above map, the wellsite is in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 23, Township 38 South, Range 25 East of the Salt Lake Meridian, San Juan County, Utah. The elevation is 5178.31 feet, ungraded ground, elevation datum is the ungraded ground elevation on Well No. 1-26, which is elev. 5112.

REFERENCE POINT,	S. 60° E. - 300'	, Rebar and lath, elev. top of rebar =	5156.19	feet.
REFERENCE POINT,	N. 60° W. - 300'	, Rebar and lath, elev. top of rebar =	5225.22	feet.
REFERENCE POINT,	S. 30° W. - 300'	, Rebar and lath, elev. top of rebar =	5209.02	feet.
REFERENCE POINT,	N. 30° E. - 300'	, Rebar and lath, elev. top of rebar =	5143.88	feet.

Thomas Engineering, Inc.
215 No. Linden
Cortez, Colorado 81321
303-565-4496

No. 4346
Fredric P. Thomas, PE-63
Cortez, Colo. No. 6738

Marathon Oil Company
Well No. 3-23
Section 23, T.38S., R.25E.
San Juan County, Utah
Lease U-31928
Tin Cup Mesa Unit

Supplemental Stipulations

Construction:

- 1) The operator will give the dirt contractor a copy of the Surface Use Plan and any additional BLM stipulations prior to any work.
- 2) If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
- 3) Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- 4) The top six inches of soil material will be removed from the location and stockpiled separate from the trees on the northwest side. Topsoil along the access will be reserved in place.
- 5) The reserve pit will be lined at the discretion of the dirt contractor.

Rehabilitation:

- 1) The operator or his contractor will contact the San Juan Resource Area BLM Office in Monticello, UT., 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.
- 2) All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- 3) The stockpiled topsoil will be evenly distributed over the disturbed area.
- 4) When broadcast seeding, a harrow or similar implement will be dragged over the seeded area to assure seed cover.
- 5) The access will be blocked to prevent vehicular access.

6. Water bars will be constructed as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 feet
2-4%	Every 100 feet
4-5%	Every 75 feet
5+%	Every 50 feet

Production:

1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. Enough topsoil will be retained to reclaim the remainder of the location at a future date. The remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.
2. The access shall be upgraded to BLM Class III Road specifications.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other
-
2. NAME OF OPERATOR
Marathon Oil Company
-
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
-
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
-
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>
(other) Change in #	<input type="checkbox"/>

SUBSEQUENT REPORT OF:

--	--	--	--	--	--	--	--

5. LEASE U-31928	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME Tin Cup Mesa Unit	
8. FARM OR LEASE NAME Tin Cup Mesa	
9. WELL NO. 3-23	
10. FIELD OR WILDCAT NAME Tin Cup	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T38S, R25E	
12. COUNTY OR PARISH San Juan	13. STATE Utah
14. API NO. 43-037-30815	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 5,178.31' Ungraded ground	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Sir,

Our original plans were permitted to drill the above captioned well directional hole. Reevaluation has caused us to change our plans and we request to drill this well straight hole.

Verbal permission was given by Mr. Bill Martens, MMS, to Walt West, MOC, 10/18/82.

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

DATE: 10/25/81
BY: Set 6

Subsurface Safety Valve: Manu. and Type

18. I hereby certify that the foregoing is true and correct

SIGNED Dale J. Caddy TITLE Dist Oper Manager DATE 10/18/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MINERAL MANAGEMENT
SERVICE
ON GAS OPERATIONS
RECEIVED

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ gas ☐ other ☐
well well
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

(other) Change in Plans

SUBSEQUENT REPORT OF:

☐
☐
☐
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☐
☐
☐

5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa TRACT 5
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,178.31' Ungraded ground

RECEIVED
(NOTE: Report results of multiple completion or zone change on Form 9-330.)
OCT 21 1982

DIVISION OF
OIL & GAS

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Sir,

Our original plans were permitted to drill the above captioned well directional hole. Reevaluation has caused us to change our plans and we request to drill this well straight hole.

Verbal permission was given by Mr. Bill Martens, MMS, to Walt West, MOC, 10/18/82.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Bob J. Caddy TITLE Dist Oper Manager DATE 10/18/82

APPROVED BY WT Martin
CONDITIONS OF APPROVAL, IF ANY:

(This space for Federal or State office use)

FOR
TITLE E. W. GUYNN DATE OCT 20 1982
DISTRICT OIL & GAS SUPERVISOR

*See Instructions on Reverse Side

STATE OF UTAH - DOGEM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below ☐

SUBSEQUENT REPORT OF:

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5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 12-5-82 To: 12-7-82

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED MEKugh TITLE Drilling Superintendent DATE 12-7-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

- 12-5-82 303' MADE 238' IN MORRISON FORMATION. MW WTR. MOVE IN & RU ROTARY TOOLS. SPUD @ 12:45 A.M., 12-5-82. PRESENTLY DRLG AHEAD W/NO PROB.
- 12-6-82 1,204' MADE 901' IN KAYENTA FORMATION. MW 9.1, VIS 39. DRLD TO 1,028'. SHORT TRIP 15 STDS W/NO DRAG. PRESENTLY DRLG AHEAD.
- 12-7-82 1,492' MADE 288' IN WINGATE FROMATION. MW 9.1, VIS 39. BIT NO 1, 12-1/4", SEC, S84F, SER NO. 1245, JETS 12/12/12, DEPTH IN 65', DEPTH OUT 1,492', 1,427 FEET, 26-1/2 HRS, 54 FT/HR, CONDITION 3/E/I. DRLD to 1,492', NO PROB. SHORT TRIP OK. POH, RAN @ JTS 9-5/8", 36#, CSG & 35 JTS 9-5/8", 40#, K-55 CSG. LAND CSG @ 1,488.64'. RU DOWELL & CMT w/270 SX HIGH YIELD CMT W/1/4#/SK CELLAPHANE FLAKES & 2% CACL2; FOLLOWED BY 270 SX CLASS "B" CMT W/SAME. PLUG DOWN @ 9:45 P.M., 12-6-82.

NOTICE OF SPUD

file

Company: Marathon Oil
Caller: Walt West
Phone: 307-577-1555
Well Number: Tincup messa 3-23
Location: NWSW 23 T.38S. R.25E
County: San Juan State: Utah
Lease Number: U-31928
Lease Expiration Date: —
Unit Name (If Applicable): Tincup messa
Date & Time Spudded: 1245 AM 12/5/82
Dry Hole Spudder/Rotary: —
Details of Spud (Hole, Casing, Cement, etc.) —

Rotary Rig Name & Number: Energy Search #1
Approximate Date Rotary Moves In: 12/5/82

FOLLOW WITH SUNDRY NOTICE

Call Received By: Becky
Date: 12/4/82

State O&G ✓
mms Vernal
Teresa
Diane
File

RECEIVED
DEC 08 1982

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

3 M
Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below

SUBSEQUENT REPORT OF:

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5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 12-8-82 To: 12-16-82

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct Drilling

SIGNED ME Krugh / A.G. TITLE Superintendent DATE 12-22-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TINCUP MESA #3-23

- 12-8-82 1,492' MADE 0' IN WINGATE FORMATION. NU BOPE. PRESENTLY RIH.
- 12-9-82 2,133' MADE 641' IN CHINLE FORMATION. MW 9.2. DRLG W/NO PROBLEMS.
- 12-10-82 2,640' MADE 507' IN MOENKOPI FORMATION. MW 9.4. DRLG W/NO PROB.
- 12-11-82 3,241' MADE 601' IN CUTLER FORMATION. MW 10.2, VIS 40. DRLD 2,640'-3,130' HAD 1" WATERFLOW. KILLED W/10.2 PPG. DRLG AHEAD.
- 12-12-82 3,627' MADE 386' IN CUTLER FORMATION. MW 10.4, VIS 47. DRLD 3,241'-3,627', NO PROB.
- 12-13-82 3,970' MADE 343' IN CUTLER FORMATION. MW 10.1, VIS 40. DRLD 3,627'-3,802'. MADE 10 STD, SHORT TRIP. DRLD 3,802'-3,970', NO PROB.
- 12-14-82 4,205' MADE 235' IN CUTLER FORMATION. MW 10.1, VIS 39. BIT NO 3, 8-3/4", SEC, S84F, SER NO. 136868, JETS 12/13/B, DEPTH IN 2,329', DEPTH OUT 4,039', 1,710 FEET, 80-3/4 HRS, 21 FT/HR, CONDITION 8/F/1/8. DRLG.
- 12-15-82 4,566' MADE 361' IN HONAKER TRAIL FORMATION. MW 10.4, VIS 46. DRLD 4,205'-4,566' W/NO PROBLEMS.
- 12-16-82 4,900' MADE 334' IN HONAKER TRAIL FORMATION. MW 10.1, VIS 46. DRLG AHEAD, NO PROB.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

SUBSEQUENT REPORT OF

(other) Permission to Flow Test Well

5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,197' KB, 5,184' GL

JAN 10 1983

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Sirs:

After completion of the above captioned well, we request a 60-day flow test period.

Completion and testing of the Ismay will be done in the 1st quarter of 1983.

Permission on this request was given by Mr. Cleon B. Feight, Div. Director, State of Utah, OG&M, to Walt West, MOC, 1-6-83.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

District

SIGNED Dale Cassidy TITLE Operations Manager DATE January 6, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

cc: Ronald J. Firth
State Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
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AT TOTAL DEPTH:
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REQUEST FOR APPROVAL TO:
TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below

SUBSEQUENT REPORT OF:

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U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
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Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
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Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 1-5-83 To: 1-14-83

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct Drilling

SIGNED M E Krueger / A.G. TITLE Superintendent DATE 1-19-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TINCUP MESA #3-23

- 1-5-83 MOVED COMPLETION UNIT ON LOCATION. RIGGED UP & INSTALLED BOP. FILLED RIG PIT W/FRESH WTR. RIH W/BIT, CSG SCRAPER.
- 1-6-83 FOUND PBTD @ 5,856.8' KB.
- 1-7-83 RAN CCL, GR, CBL & VDL LOGS. PRESSURED CSG TO 750# & RAN LOG UNDER PRESSURE TO 5,500'; CBL IMPROVED SOME, SO RAN LOG UNDER 1,150# PRESS FROM BTM TO 2,200'.
- 1-8-83 RIH LANDED BOTTOM OF TBG @ 5,630' KB. PUMPED 250 GAL 15% MSA. PERFORATED FROM 5,627'-5,632' KB W/23 JETS @ 2 SHOT PER FT. RIH W/BAKER MODEL A-3 DOUBLE GRIP PKR. SET PKR @ 5,577' KB. PRESSURED CSG TO 3000# W/NO PRESS. PRESS TBG TO 6,000# SURFACE BUT COULD NOT BREAK DOWN PERFORATIONS.
- 1-9-83 PRESS TO 7,300# ON PERFORATIONS. UNSEATED PKR. CIRC OUT ALL OF THE ACID. POH W/TBG & PKR. LANDED TBG AT BTM OF PERFORATIONS. WILL SPOT ACID & REPERFORATED ON MONDAY.
- 1-10-83 SDFS.
- 1-11-83 PMPD 250 GAL OF 15% MSR. PERFORATED FROM 5,627'-5,632' KB W/DML 23 GRAM SHOTS W/2 SPF. RIH W/BAKER MODEL R3 DOUBLE GRIP PKR. PMPD 4 BBL OF WTR DOWN CSG TO ESTABLISH CIRCULATION WHICH INDICATES THAT THE WELL IS TAKING FLUID. SET PKR @ 5,577' KB. PMPD 3-1/2 BBL DOWN TBG, WELL WENT ON VACUUM. REMOVED BOP & INSTALLED TREE. TESTED TREE TO 5,000#, TESTED OK. INSTALLED SWAB EQUIP.
- 1-12-83 WELL ON VACUUM. TAGGED FLUID @ 1,500'. FLOWED WELL TO RESERVE PIT UNTIL OIL SHOWED, THEN FLOWED TO FRAC TANK (FLOWED APPROX 5 BBL WTR TO PIT). FLOWED & SWABBED 20 BBL OF OIL & 28 BBL OF WTR TO TANK IN 5 HRS.
- 1-13-83 WELL UNLOADED TOTAL OF 10 BW & 31 BO & 90 MCF. WELL FLOWED UNTIL 9:30 PM THEN DIED.
- 1-14-83 BEGAN SWABBING @ 8 A.M. WELL WOULD FLOW TO TANK FOR APPROX 30 MIN AFTER RUN. SWABBED & FLOWED WELL FROM 8 AM TO 5 PM. TOTAL OIL = 53, WTR = 40. SITP @ 7:30 A.M., 1-14-83 = 440.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

SUBSEQUENT REPORT OF:

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(other) Proposed Flow Lines

RECEIVED
JAN 20 1983

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

**DIVISION OF
OIL, GAS & MINING**

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Sirs:

We propose to lay approximately three-tenths of a mile production flow lines from Tin Cup Mesa #3-23, and connect to existing lines near Tin Cup Mesa #2-23. Three lines will be laid: one (1) 3" steel, one (1) 3" Fiber Glass, and one (1) 3" CVP. This connection will put well #3-23 on line to the production facility at #1-25 location.

An on-site was made 1-11-83 by Brian Wood, BLM, and Walt West, MOC. After a phone call, by Mr. Wood to Mr. Bill Martens, BLM O&G, Salt Lake, verbal permission was given to Walt West, MOC, to lay the lines.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct District

SIGNED Walt Caddy TITLE Operations Manager DATE 1-17-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
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REQUEST FOR APPROVAL TO:

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FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below

SUBSEQUENT REPORT OF:

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5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
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3-23
10. FIELD OR WILDCAT NAME
Tin Cup
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Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 1-15-83 To: 2-3-83

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED ME Kugh TITLE Drilling Superintendent DATE 2-14-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

TINCUP MESA #3-23

- 1-15-83 WELL BLED DOWN. RAN SWAB. RECOVERED 35 BO, 31 BW - NO GAS MEASUREMENT. RELEASED COMPLETION RIG.
- 1-16-83 OPENED WELL TO FRAC TANK. FLOWED FOR 1-1/2 HRS.
- 1-17-83 OPENED WELL TO FRAC TANK FOR 1 HR.
- 1-18-83 OPENED WELL TO FRAC TANK, FLOWED 1 BO, 1 BW & QUIT FLOWING.
- 1-19-83 OPENED TO TANK.
- 1-20-83 OPENED WELL TO TANK. SWABBED WELL FOR 6 HRS (24 RUNS). WELL SWABBED & FLOWED 20 BO & 33 BW IN 7 HRS.
- 1-21-83 SWABBED & FLOWED WELL FOR 9 HRS.
- 1-22-83 SWABBED A TOTAL OF 48 BO, 34 BW.
- 1-23-83 SWABBED 8 HRS, 56 BO, 40 BW.
- 1-25-83 SWABBED 7 HRS, REC 40 BO, 50 BW, RELEASED SWAB UNIT.
- 1-26-83 BLEW WELL DOWN, NO FLOW.
- 1-27-83 WELL BLED DOWN, NO FLOW. MOVED OUT SWAB UNIT.
- 1-28-83 SITP 95#, 15 HRS.
- 1-29-83/
2-2-83 SI.
- 2-3-83 MOVED UNIT ON LOCATION. NIPPLED UP & TESTED BOP. UNSEATED PKR. STARTED OUT OF HOLE W/TBG.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below

SUBSEQUENT REPORT OF:

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5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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PROGRESS REPORT

From: 2-26-83 To: 3-4-83

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED ME Kugh TITLE Drilling Superintendent DATE 3-7-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TINCUP MESA #3-23

2-26-83/

3-2-83 SI.

3-3-83 SI. STATIC DUE TO ROAD & WEATHER CONDITIONS.

3-4-83 SI.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TEST WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>
(other)	See Below

SUBSEQUENT REPORT OF:

[illegible]

REPORT OF

RECEIVED

APR 14 1968

NOTE: Report re

APR 14 1968

DIVISION OF
OIL, GAS & MINING

5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
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14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 3-18-83 To: 3-30-83

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct Drilling
SIGNED M E King / A.G. TITLE Superintendent DATE 4-7-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

TINCUP MESA #3-23

3-18-83/

3-21-83 SI.

3-22-83 WELL PUT ON PMP @ 11:20 A.M.

3-23-83 MCF 12, 50 BW, 5 BO, 13 HRS WELL WENT DOWN.

3-24-83 MCF 22, 115 BW, 5 BO.

3-25-83 MCF 22, AJAX ENGINE WENT DOWN.

3-26-83/

3-30-83 SI.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well <input checked="" type="checkbox"/> gas well <input type="checkbox"/> other <input type="checkbox"/>	5. LEASE U-31928
2. NAME OF OPERATOR Marathon Oil Company	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 2659, Casper, WY 82602	7. UNIT AGREEMENT NAME Tin Cup Mesa Unit
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: 1,055.07' FSL & 4,014.20' FEL AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	8. FARM OR LEASE NAME Tin Cup Mesa
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	9. WELL NO. 3-23
REQUEST FOR APPROVAL TO: TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> CHANGE ZONES <input type="checkbox"/> ABANDON* <input type="checkbox"/> (other) See Below	10. FIELD OR WILDCAT NAME Tin Cup
SUBSEQUENT REPORT OF: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 23, T38S, R25E
	12. COUNTY OR PARISH San Juan
	13. STATE Utah
	14. API NO. 43-037-30815
	15. ELEVATIONS (SHOW DF, KDB, AND WD) 5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

RECEIVED
APR 25 1983
DIVISION OF
OIL GAS & MINING

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 3-31-83 To: 4-20-83

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct Drilling
SIGNED MEKugh TITLE Superintendent DATE 4-21-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TINCUP MESA #3-23

3-31-83/

4-1-83 SI.

4-2-83 TP 80, CP 80, MCF 5, 15 BW, 5 BO, 5 HRS.

4-3-83 TP 90, CP 90, MCF 27, 75 BW, 12 BO, 24 HRS.

4-4-83 TP 70, CP 70, MCF 16, 19 BW, 11 BO, 12 HRS. WELL DOWN 10 HRS DUE TO DRIVE BELTS.

4-5-83 TP 60, CP 60, MCF 18, 61 BW, 32 BO, 22 HRS.

4-6-83 TP 70, CP 70, MCF 6, 19 BW, 15 BO, 5 HRS, AJAX ENGINE DOWN.

4-7-83/

4-10-83 SI.

4-11-83 STARTED PMPG @ 1:00 P.M., W/63.25" STROKE, 9 SPM, 20 BW, 35 BO, MCF 31.

4-12-83 PMPD 20-1/2 HRS. 55 BO, 59 BW, TP 114, 19 MCFD.

4-13-83 3 BO, 62 BW, 26 MCFD, TP/CP 70.

4-14-83 24 HRS, 20 BO, 56 BW, MCFD 29, TP/CP 55.

4-15-83 24 HRS, 25 BO, 47 BO, MCFD 27, TP/CP 50.

4-16-83 PMPD TO PRODUCTION 22 HRS. OIL 44, WTR 34, MCFD 29.

4-17-83 PMPD TO PRODUCTION 14 HRS. OIL 36, WTR 18, MCFD 74.

4-18-83 PMPD TO PRODUCTION 24 HRS. OIL 24, MCFD 29.

4-19-83 PMPD TO PRODUCTION 24 HRS. OIL 40, WTR 76, MCFD 41.

4-20-83 PMPD 24 HRS. OIL 78, WTR 23, MCFD 75.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below

SUBSEQUENT REPORT OF:

- ☐
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☐
☐
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5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

RECEIVED
MAY 18 1983

PROGRESS REPORT

From: 4-20-83 To: 5-5-83

**DIVISION OF
OIL, GAS & MINING**

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED C. A. Guthrie Drilling
TITLE Superintendent DATE 5-9-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TINCUP MESA #3-23

(CORRECTION FROM PREVIOUS REPORT OF 4-20-83 IS AS FOLLOWS:)

4-20-83 PMPD 24 HRS. OIL 30, WTR 72, MCFD 75.

4-21-83 OIL 14, WTR 60, MCFD 53.

4-22-83 OIL 35, WTR 62, MCFD 61.

4-23-83 PMPD 24 HRS. OIL 21, WTR 73, MCFD 66.

4-24-83 OIL 34, WTR 71, MCFD 77.

4-25-83 OIL 24, WTR 75, MCFD 49.

4-26-83 OIL 26, WTR 82, MCFD 53.

4-27-83 OIL 20, WTR 73, MCFD 67.

4-28-83 OIL 33, WTR 81, MCFD 76.

4-29-83 OIL 24, WTR 75, MCFD 55.

4-30-83 OIL 25, WTR 61, MCFD 49.

5-1-83 OIL 28, WTR 76, MCFD 59.

5-2-83 OIL 22, WTR 68, MCFD 67.

5-3-83 OIL 26, WTR 73, MCFD 67.

5-4-83 OIL 22, WTR 80, MCFD 61.

5-5-83 OIL 29, WTR 69, MCFD 61.

SUNDRY NOTICES AND REPORTS ON WELLS

1. oil well ☒ gas well ☐ other

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,
REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>
(other) See Below	

SUBSEQUENT REPORT OF:

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RECEIVED
(NOTE: add 1% charge)
MAY 21 1966

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

MAY 31 1983

DIVISION OF
OIL, GAS & MINING

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 5-6-83 To: 5-19-83

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
 SIGNED Guy A. Newburn TITLE Drilling Superintendent

DATE 5-19-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

TINCUP MESA #3-23

5-6-83 BO 30, BW 90, MCFD 61.

5-7-83 BO 32, BW 101, MCFD 80.

5-8-83 BO 28, BW 92, MCFD 64.

5-9-83 BO 30, BW 88, MCFD 66.

5-10-83 BO 20, BW 80, MCFD 64.

5-11-83 BO 23, BW 88, MCFD 62.

5-12-83 MCF 54, OIL 26, WTR 60. DISMANTLING PMPG UNIT.

5-13-83/

5-19-83 SI.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
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REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below ☐

SUBSEQUENT REPORTS OF:

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RECEIVED

JUN 15 1983

**DIVISION OF
OIL, GAS & MINING**

5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 5-20-83 To: 6-9-83

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED Guy A. Newberry TITLE Drilling Superintendent DATE 6-13-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TINCUP MESA #3-23

- 5-20-83 SURFACE EQUIPMENT INSTALLATION COMPLETE. MCF 0, OIL 0, WTR 0, HRS 3. WELL PMPG WTR W/SLIGHT OIL STAIN @ SAMPLE COCK @ PMPG TEE. PMPG UNIT IN SHORT STROKE 8", ENGINE 12 SPM.
- 5-21-83 TBG PRESS 75, TRTR PRESS 28, MCF 100, TEMP 105°, WTR 150 BBL, OIL 55 BBL, HRS 24, GOR = 1,818 SCF/BBL, W.C. 73%, 11 SPM.
- 5-22-83 TP 70, TRTR PRESS 28, MCF 88, TEMP 112°, WTR 116 BBL, OIL 57 BBL, HRS 24, GOR = 1,543 SCF/BBL, W.C. 67%, 11 SPM.
- 5-23-83 TP 70, TRTR PRESS 28, MCF 28, TEMP 110°, WTR 105 BBL, OIL 35 BBL, HRS 24, GOR = 2,228 SCF/BBL, W.C. 75%.
- 5-24-83 TP 75, TRTR PRESS 28, MCF 78, TEMP 108°, WTR 75 BBL, OIL 21, HRS 18, SPM 11, GOR = 3,714 SCF/BBL, W.C. 78%. COMPLETION UNIT MOVED ON LOCATION & RU. (28 BOPD X 100 BOPD X 104 MCFD - 24 HR RATE).
- 5-25-83 FINISHED RIGGING UP WORKOVER UNIT. POOH W/RODS & PUMP. RIH W/PARAFFIN KNIFE TO 6,500'. RELEASED ANCHOR CATCHER. INSTALLED BOP, PULLED TBG, SWI.
- 5-26-83 RIH W/SCRAPER. HAD 53 JTS BAD TBG. WAITING ON TBG. SWI. SDN.
- 5-27-83 FINISHED RIH W/CSG SCRAPER ON 180 JTS 2-7/8" TBG TO 5,649' KB, POOH W/TBG & SCRAPER, RIH W/BAKER MODEL "C" RBP SET BTM SEAL OF BP @ 5,625' KB.
- 5-28-83 RIGGED UP HALLIBURTON, CIRCULATED OIL OUT OF HOLE, PRESSURE TESTED BAKER MODEL "C" RBP TO 940 PSI, MAINTAIN PRESSURE FOR 15 MIN W/NO BLEED OFF. OPEN ENDED TBG SET @ 5,617' KB, SPOTTED 600 GAL 15% FE ACID W/0.4% HAI 50, 0.4% LOSURF 257 ACID ON TOP OF RBP, POH W/TBG. GEOSOURCE RU TO PERFORATE THROUGH A PACK OFF HEAD. RIH W/ 4" HOLLOW STEEL CARRIER, 8' ZONE W/33 HOLES DML-XIX, .50" HOLE, 12" PENETRATION, TAGGED FLUID GOING IN HOLE @ 526' KB, CHECKED COLLARS @ 5,470'-5,513'-5,556'-5,597', CORRECTED UP HOLE 10', DROPPED BACK DOWN & PERFORATED, CLC-5,603-1/2, TS-5,608, BS-5,616'. PMPD 12 BBL WTR TO PRESSURE UP TO 500#, PRESSURE HELD, RAISED PRESSURE TO 1,000# PSI HELD FOR 15 MIN, NO PRESSURE DROP. RELOADED PERFORATING GUN W/4" HOLLOW STEEL CARRIERS, CHANG DML 23, .53 HOLE, 14" PENETRATION, RIGGED BACK UP & RIH W/PERFORATING GUN TO REPERFORATE, CHECKED COLLARS @ 5,470'-5,513'-5,556'-5,597', PERFORATED FROM 5,608' TS-5,616' BS, PERFORATED @ 5:36 P.M., POH W/GUN. 30 OUT OF 33 SHOTS FIRED. PRESSURED CSG UP TO 1,500# PSI, HAD NO BLEED OFF. HELD PRESSURE FOR 10 MIN, PRESSURE DROPPED TO 300# PSI STARTED DISPLACING 14.5 BBL OF ACID W/14.5 BBL OF WTR @ AN AVG RATE OF 1-1/2 BBL PER MIN @ 1,500# PSI. SWI, SDN.
- 5-29-83 RIH W/TBG & PKR, 1 JT TBG X RETRIEVING HEAD, BAKER MODEL "R" DOUBLE GRIP @ 5,531' KB, BOTTOM OF RH SET @ 5,567' OPEN ENDED. RIH W/SWAB, TAGGED FLUID ON FIRST RUN @ 2,000' ON 8TH RUN, STARTED GETTING A LITTLE GAS BLOW, FL 3,800' ON 13TH RUN, FLUID GAS CUT F.L. 4,900', ON 18TH RUN, RECOVERED 80 BBL FLUID WHICH WOULD EQUAL TOTAL LOAD FLUID. TOTAL FLUID RECOVERED WAS 90 BBL, WATER CUT WAS 90%, FLUID WOULD RAISE IN TBG @ THE RATE OF 500'+ PER HOUR.
- 5-30-83 SDFS.
- 5-31-83 SDFH.

TINCUP MESA #3-23

- 6-1-83 SI TBG PRESSURE 180# PSIG. TAGGED FLUID @ 3,000' ON FIRST RUN @ 1:12 P.M., W.C. 70%, FLUID LEVEL 2,600', PULLED SWAB FROM PKR ON LAST FEW RUNS, F.L. 4,200'. SWABBED 39 BO AND 76 BW TODAY. AVG WATER CUT 66%, SDN.
- 6-2-83 RELEASED MODEL "R" DOUBLE GRIP PKR, DROPPED DOWN & RELEASED MODEL "C" RBP & POH. RIH W/PRODUCTION STRING. RIH W/MUD ANCHOR, SN, 2 JTS, MADE 8-3 ANCHOR CATCHER, 177 JTS, 1-6' SUB. SN SET @ 5,641.5' KB, ANCHOR CATCHER SET @ 5,577.2' KB. SET TBG ANCHOR W/12 TO 1,400# TENSION. RIH W/2-1/2 X 1-1/2 X 16' PMP, 153-3/4 RODS, 71-7/8, 2-4' 7/8 PONY RODS, 22' POLISH ROD, HUNG ON UNIT. WSI, SDN.
- 6-3-83 MOVED RIG OUT, PMPG UNIT OUT OF LINE.
- 6-4-83 DISPLACED OIL OUT OF FLOWLINE W/WTR. STARTED WELL PMPG @ 3:00 P.M.
- 6-5-83 ON PMP 24 HRS, BO 25, BW 110, BF 135, WC 81, MCF 72, GOR 2,880, TP 65#, 10 SPM.
- 6-6-83 TP 50, TRTR PRESS 28, MCF 72, WTR 26, BO 13, TEMP 90°, HRS 12, WELL DOWN 12 HRS, SURFACE EQUIP PROBLEMS. 24 HR TEST. 26 BO, 112 BW, 138 BBL TOTAL FLUID, WC 81%, GOR = 2,769.
- 6-7-83 TP 65, TRTR PRESS 27, TEMP 105°, MCF 61, BO 17, BW 77, TF 94 BBL, WC 82%, GOR = 3,588 SCF/BBL, SPM 10, 24 HRS.
- 6-8-83 TP 70, TRTR PRESS 27, TEMP 100°, MCF 77, OIL 13, WTR 130, TF 143, WC 91%, GOR 5,923 SCF/BBL, SPM 9.5, 24 HRS.
- 6-9-83 MCF 80, BW 124, BO 46, WC 73%, GOR = 1,739 SCF/BBL, HRS 24, FLUID LEVEL @ 4,995'.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below

SUBSEQUENT REPORT OF:

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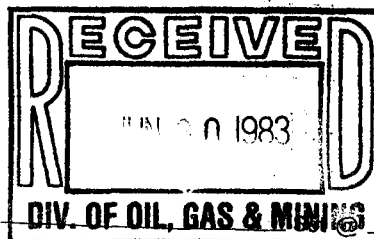
5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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PROGRESS REPORT

From: 6-10-83 To: 6-24-83



Subsurface Safety Valve: Manu. and Type _____

18. I hereby certify that the foregoing is true and correct
SIGNED Gary Newberry / A.G. TITLE Drilling Superintendent

DATE 6-24-83

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

TINCUP MESA #3-23

- 6-10-83 TP 60, TRTR PRESS 27, MCF 77, BW 104, BO 33, TEMP 109°, WC 76%, GOR 2,333 SCF/BBL, SPM 10, 24 HRS.
- 6-11-83 TP 65, TRTR PRESS 28, MCF 80, BO 29, BW 101, TEMP 110°, HRS 24, SPM 10, WC 78%, GOR 2,758 SCF/BBL.
- 6-12-83 TP 70, SEP PRESS 28, MCF 77, BO 30, BW 102, TEMP 110°, HRS 24, SPM 10, WC 77%, GOR 2,566 SCF/BBL.
- 6-13-83 TP 70, TRTR PRESS 28, MCF 78, BO 28, BW 110, TEMP 110°, HRS 24, SPM 10, WC 62%, GOR 1,147 SCF/BBL.
- 6-14-83 TP 65, TRTR PRESS 28, MCF 80, BO 24, BW 107, TEMP 10°, HRS 24, SPM 10, WC 82%, GOR 3,333 SCF/BBL.
- 6-15-83 TP 70, TRTR PRESS 28, MCF 75, BO 36, BW 90, TEMP 110°, HRS 24, SPM 10, WC 73%, GOR 2,083 SCF/BBL.
- 6-16-83 TP 70, TRTR PRESS 27, MCF 80, BO 28, BW 98, TEMP 110°, HRS 24, SPM 10, WC 78%, GOR 2,857.
- 6-17-83 TP 70, TRTR PRESS 27, MCF 80, BO 26, BW 105, TEMP 110°, HRS 24, SPM 10, WC 78%, GOR 3,076 SCF/BBL.
- 6-18-83 TP 70, TRTR PRESS 27, MCF 80, BO 27, BW 113, TF 140 BBL, TEMP 108°, HRS 24, SPM 10, WC 81%, GOR 2,964 SCF/BBL.
- 6-19-83 TP 65, TRTR PRESS 27, MCF 75, BO 23, BW 97, TF 120 BBL, TEMP 100°, HRS 24, SPM 10, WC 81%, GOR 3,260 SCF/BBL.
- 6-20-83 TP 70, TRTR PRESS 27, MCF 77, BO 26, BW 66, TF 92 BBL, TEMP 110°, HRS 24, SPM 10, WC 72%, GOR 2,962 SCF/BBL.
- 6-21-83 TP 65, TRTR PRESS 27, MCF 84, BO 23, BW 64, TF 87 BBL, TEMP 112°, HRS 24, SPM 10, WC 74%, GOR 3,652 SCF/BBL.
- 6-22-83 TP 60, TRTR PRESS 27, MCF 92, BO 26, BW 69, TEMP 110°, HRS 24, SPM 10, WC 73%, GOR 3,538 SCF/BBL.
- 6-23-83 TP 70, TRTR PRESS 27, MCF 86, BO 26, BW 80, TEMP 115°, HRS 24, SPM 10, WC 75%, GOR 3,307 SCF/BBL; FLUID LEVEL @ 5,575' (TBG ANCHOR @ 5,577' - 64' ABOVE SN).
- 6-24-83 TP 65, TRTR PRESS 27, MCF 92, BO 23, BW 88, TF 111 BBL, TEMP 112°, HRS 24, SPM 10, WC 79%, GOR 4,000.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Marathon Oil Company
3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below

SUBSEQUENT REPORT OF:

- ☐
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5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 6-25-83 To: 7-5-83

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Guy A. Newberry TITLE Drilling Superintendent DATE 7-6-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TINCUP MESA #3-23

- 6-25-83 TP 65, TRTR PRESS 27, MCF 88, BO 20, BW 93, TEMP 112°, SPM 10, WC 82%, GOR 4,400 SCF/BBL, TF 113.
- 6-26-83 TP 65, TRTR PRESS 27, MCF 88, BO 25, BW 57, TEMP 112°, HRS 24, SPM 10, WC 70%, GOR 3,520 SCF/BBL, TF 82 BBL.
- 6-27-83 TP 60, TRTR PRESS 27, MCF 77, BO 48, BW 74, TEMP 110°, HRS 24, SPM 10, WC 61%, GOR 1,604 SCF/BBL, TF 122.
- 6-28-83 TP 65, TRTR PRESS 27, MCF 74, BO 28, BW 90, TF 118 BBL, WC 76%, GOR 2,643 SCF/BBL, TEMP 115°, SPM 10, HRS 24.
- 6-29-83 TP 60, TRTR PRESS 27, MCF 81, BO 29, BW 87, HRS 23-1/2, TEMP 110°, SPM 10, TF 110 BBL, WC 75%, GOR 2,793 SCF/BBL.
- 6-30-83 TP 65, TRTR PRESS 27, MCF 87, BO 21, BW 102, TFF 123 BBL, WC 83%, GOR 4,143, TEMP 110°, HRS 24, SPM 10.
- 7-1-83 TP 60, TRTR PRESS 27, MCF 83, BO 23, BW 92, TF 115, WC 80%, GOR 3,609 SCF/BBL, TEMP 86°, SPM 10, HRS 24.
- 7-2-83 TP 65, TRTR PRESS 27, MCF 81, BO 25, BW 87, TF 112 BBL, WC 78%, GOR 3,240 SCF/BBL, TEMP 110°, SPM 10, HRS 24.
- 7-3-83 TP 70, TRTR PRESS 27, MCF 75, BO 25, BW 71, TF 96 BBL, WC 74%, GOR 3,160 SCF/BBL, TEMP 116°, SPM 10, HRS 24.
- 7-4-83 TP 65, TRTR PRESS 27, MCF 79, BO 19, BW 78, TF 97 BBL, WC 80%, GOR 4,158 SCF/BBL, TEMP 112°, SPM 10, HRS 24.
- 7-5-83 TP 60, TRTR PRESS 27, MCF 77, BO 21, BW 85, TF 106 BBL, WC 80%, GOR 3,667 SCF/BBL, TEMP 112°, SPM 10, HRS 24.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well <input checked="" type="checkbox"/> gas well <input type="checkbox"/> other <input type="checkbox"/>	5. LEASE U-31928
2. NAME OF OPERATOR Marathon Oil Company	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 2659, Casper, WY 82602	7. UNIT AGREEMENT NAME Tin Cup Mesa Unit
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: 1,055.07' FSL & 4,014.20' FEL AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	8. FARM OR LEASE NAME Tin Cup Mesa
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	9. WELL NO. 3-23
REQUEST FOR APPROVAL TO: TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> CHANGE ZONES <input type="checkbox"/> ABANDON* <input type="checkbox"/> (other) See Below	10. FIELD OR WILDCAT NAME Tin Cup
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 23, T38S, R25E
	12. COUNTY OR PARISH San Juan
	13. STATE Utah
	14. API NO. 43-037-30815
	15. ELEVATIONS (SHOW DF, KDB, AND WD) 184' GL, 5,197' KB

SUBSEQUENT REPORT

RECEIVED
JUL 26 1983

DIVISION OF
OIL GAS & MINING

NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 7-6-83 To: 7-20-83

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED Guy A. Newberry TITLE Drilling Superintendent

DATE 7-20-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TINCUP MESA #3-23

- 7-6-83 TP 70, TRTR PRESS 27, MCF 81, BO 23, BW 80, TF 103 BBL, WC 77%, GOR 3,522, TEMP 115°, SPM 10, HRS 24; FLUID LEVEL (177 JTS) 5,575' (TBG ANCHOR 5,577'; SW 5,641' KB).
- 7-7-83 TP 65, TRTR PRESS 27, MCF 77, BO 25, BW 84, TF 109 BBL, WC 77%, GOR 3,080 SCF/BBL, TEMP 117°, SPM 10, HRS 24.
- 7-8-83 TP 65, TRTR PRESS 27, MCF 85, BO 16, BW 89, TF 105 BBL, WC 85%, GOR 5,312 SCF/BBL, TEMP 112°, SPM 10, HRS 24.
- 7-9-83 TP 65, TRTR PRESS 27, MCF 77, BO 18, BW 81, TF 99 BBL, WC 82%, GOR 4,277 SCF/BBL, TEMP 114°, SPM 10, HRS 24.
- 7-10-83 TP 70, TRTR PRESS 27, MCF 81, BO 23, BW 79, TF 102 BBL, WC 77%, GOR 3,572 SCF/BBL, TEMP 115°, SPM 10, HRS 24.
- 7-11-83 TP 60, TRTR PRESS 27, MCF 77, BO 19, BW 75, TF 94 BBL, WC 80%, GOR 3,667 SCF/BBL, TEMP 110°, SPM 10, HRS 22, (21 BOPD X 82 BOPD FOR 24 HR RATE).
- 7-12-83 TP 65, TRTR PRESS 24, MCF 78, BO 18, BW 88, TF 106 BBL, WC 83%, GOR 4,333 SCF/BBL, TEMP 114°, SPM 10, HRS 24.
- 7-13-83 TP 65, TRTR PRESS 24, MCF 81, BO 20, BW 80, TF 100 BBL, WC 80%, GOR 4,050 SCF/BBL, TEMP 112°, SPM 10, HRS 24. SHOT FLUID LEVEL 5,507'-134' FLUID.
- 7-14-83 TP 70, SEP 24, MCF 84, BO 21, BW 97, TF 118 BBL, WC 82%, GOR 4,000 SCF/BBL, TEMP 115°, SPM 10, HRS 24.
- 7-15-83 TP 65, TRTR PRESS 24, MCF 78, BO 15, BW 50, TF 65 BBL, WC 77%, GOR 3,714, HRS 17. SHUT WELL DOWN, MOVED WORKOVER UNIT ON LOCATION.
- 7-16-83 PULLED RODS & PMP. RODS HANGING UP COMING OUT OF TBG. RECOVERED 1 PARAFFIN SCRAPER. RU TO PULL TBG; WELL WAS DEAD. INSTALLED & TESTED BOP & PULLED TBG. RU GEOSOURCE TO PERFORATE FROM 5,588'-5,597' W/4SHOTS PER FT. RIH THRU LUBRICATOR, CHECKED COLLARS @ 5,470', 5,556' & 5,597'. TAGGED FLUID @ 4,200'. PERFORATED @ 3:07 P.M. POOH W/CSG GUN. FLUID LEVEL STILL @ 4,200'. ALL SHOTS FIRED. STARTED BACK IN HOLE W/RECONDITIONED BAKER ANCHOR CATCHER & TBG. SWI, SDN.
- 7-17-83 FINISHED RIH W/TBG, SET ANCHOR CATCHER IN 18,000# TENSION. NIPPLED DOWN BOP, RIH W/PMP & ROD STRING. HUNG HORSE'S HEAD ON UNIT. STARTED WELL PMPG. WELL PMPD UP @ 2:30 P.M. RIGGED DOWN WORKOVER UNIT. OIL TO TREATER @ 5:30 P.M.
- 7-18-83 BO 42, BW 123, TF 165 BBL, WC 74%, MCF 89, GOR 2,119, HRS 24, SPM 10.
- 7-19-83 BO 41, BW 87, TF 128 BBL, WC 67%, MCF 87, GOR 2,121, HRS 24, SPM 10.
- 7-20-83 BO 39, BW 92, TF 131 BBL, WC 70%, MCF 77, GOR 1,974, HRS 24, SPM 10. FLUID LEVEL 134 JTS X 31.38 = 4,204.92 (1,436' FOP).

RECEIVED

AUG 31 1983

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
DIVISION OF
OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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Marathon Oil Company
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P.O. Box 2659, Casper, WY 82602
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AT TOP PROD. INTERVAL:
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FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below

SUBSEQUENT REPORT OF:

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U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
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Tin Cup Mesa Unit
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Tin Cup Mesa
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3-23
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Tin Cup
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Section 23, T38S, R25E
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5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 8-10-83 to: 8-25-83

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED Gary A. Newberry TITLE Drilling Superintendent DATE 8-26-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TINCUP MESA #3-23

- 8-10-83 BO 30, BW 80, TF 110 BBL, WC 73%, MCF 62, GOR 2,066, HRS 23, FOP 496'. 1ST FLUID LEVEL = $164.5 \text{ JTS} \times 31.38' = 5,162'$. 2ND FLUID LEVEL = $163.5 \text{ JTS} \times 31.38' = 5,130.63'$.
- 8-11-83 BO 24, BW 84, TF 108 BBL, WC 78%, MCF 65, GOR 2,708, HRS 24.
- 8-12-83 BO 28, BW 85, TF 103 BBL, WC 73%, MCF 65, GOR 2,321, HRS 24.
- 8-13-83 BO 29, BW 88, BF 117, WC 75, MCF 78, 24 HR RATE, GOR 2,689; PMP TO PRODUCTION 17-1/2 HRS.
- 8-14-83 RIH W/BAKER WL RETRIEVABLE BRIDGE PLUG ON GEOSOURCE WL. RETRIEVABLE BRIDGE RUBBERS @ 5,602' KB. FLUID LEVEL @ 4,200'. RIH/MODEL R3 DOUBLE GRIP PKR, ONE SN AND 5,553' OF TBG. SET PKR @ 5,553' GL. SET DOWN 18,000# ON PKR. DOWELL RU. PMPD 1,000 GALS MSR 28% HCL ACID W/4 GALS DEMULSIFIER ADDED W/IRON SEQUESTERING AGENT AND 2 GALS A250 CORROSION INHIBITOR. PMPD FOR 194 MINUTES AT A RATE OF 0.6 BBLs. PER MINUTE. TOTAL OF 11-3/4 BBLs WTR AT A RATE OF 2,900# OF PRESSURE. IT BROKE TO A VACUUM WHEN ACID HIT PERFS. FINISHED DISPLACING ACID W/WTR AT A RATE OF 1 BPM FOR A TOTAL OF 44 BBLs.
- 8-15-83 SITP 50#, SICP 0#, CUT OFF BAD SECTION OF SAND LINE. RAN SWAB IN HOLE. NO FLUID RECOVERED ON 1ST RUN, 2ND THR 7TH RUN, RECOVERED 26 BBLs FLUID, WC 99%. FLUID LEVEL AT 4,000', RECOVERED LOAD FLUID ON 9TH RUN (40 BBLs). MADE A TOTAL OF 14 SWAB RUNS AND RECOVERED 66 BBLs FLUID. WC ON 10TH THRU 14TH RUNS WAS 85%. PULLING THE SWAB FROM PACKER AT 5,553'. SWI AND SDN.
- 8-16-83 SITP 180#, SICP 125#, RAN SWAB, TAGGED FLUID @ 3,000', MADE ONE RUN, RECOVERED 8 BBLs FLUID, 20% WC, RELEASED AND POH W/PKR--RUN BACK IN HOLE W/DOWNHOLE PMPD EQUIPMENT--SN LANDED @ 5,550' MAT. AC LANDED @ 5,516' MAT IN 1,500# TENSION--(RET BPC 5,599' KB). RAN RODS--POP @ 6:30 PM. WELL PMPD UP @ 8:40 P.M.
- 8-17-83 RELEASED RIG, RUN FLUID SHOT, FOP 2,664', BO 24, BW 92, BF 116, WC 79, MCF 114, GOR 4,750, CALCULATED TO 24 HRS, PMPD 13 HRS. DOWN TIME LOST FUEL GAS, CHUNKS OF APOXEY PLUGGED DIAP VALVE ON HEADER.
- 8-18-83 BO 34, BW 113, BF 147, WC 76%, MCF 72, GOR 2,117.
- 8-19-83 BO 42, BW 113, BF 155, WC 72, MCF 75, GOR 1,785.
- 8-20-83 BO 42, BW 83, BF 125, WC 66%, MCF 61, GOR 1,452.
- 8-21-83 BO 35, BW 74, BF 109, WC 67%, MCF 57, GOR 1,628.
- 8-22-83 BO 41, BW 90, BF 131, WC 68%, MCF 60, GOR 1,463.
- 8-23-83 BO 36, BW 67, BF 103, WC 65%, MCF 61, GOR 1,694.
- 8-24-83 BO 36, BW 57, TF 93 BBL, WC 61%, MCF 60, GOR 1,667, HRS 23. FLUID LEVEL (1ST) CSG = $80\# \text{ 123 JTS} \times 31.38 = 3859.74$. FLUID LEVEL (2ND) CSG = $120\# \text{ 123.5 JTS} \times 31.38 = 3875.43$.
- 8-25-83 BO 25, BW 62, TF 87 BBL, WC 71%, MCF 61, GOR 1,848 (24 HR), HRS PMPG 18. MOVED WORKOVER UNIT ON LOCATION. SWI, RU UNIT, PULLED RODS & PMP. NIPPLED DOWN TREE & INSTALLED BOP. RELEASED ANCHOR CATCHER & PULLED 50 STANDS TBG. TALLIED TBG WHILE POOH, SWI, SDN.

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			See attachment.			

PRODUCTION TREATMENT

Ismay Perforations 5588' to 5597' KB were acidized with 1,000 gals MSR 28% HCl with 4 gals demulsifier, iron sequestering agent, and 2 gals A250 inhibitor.

Ismay Perforations 5578'-5588' KB were acidized in two stages. The first stage consisted of a 150# plug of Benzoic Acid Flakes followed by 500 gals of 28% HCl Acid with additives and flushed with 23 bbls of treated water. The second stage consisted of a 450# plug of Benzoic Acid Flakes followed by 500 gals of 28% HCl Acid with additives and flushed with 70 bbls of treated water.

LOG TOPS - KB: 5197'

Chinle	1646	(+3551)
Shinarump	2445	(+2752)
Moenkopi	2500	(+2697)
Cutler	2562	(+2635)
Honaker Trail	4413	(+784)
Paradox	5363	(-166)
Upper Ismay	5516	(-319)
Hovenweep	5677	(-480)
Lower Ismay	5709	(-512)
Gothic	5756	(-559)
Desert Creek	5775	(-578)
Chimney Rock	5848	(-651)
Akah	5868	(-671)
TD	5895	

CORES

Core #1	5532' KB to 5552' KB	recovered 19 1/2'
Core #2	5553' KB to 5573' KB	recovered 17 1/2'
Core #3	5574' KB to 5594' KB	recovered 20'
Core #4	5594' KB to 5654' KB	recovered 60'
Core #5	5805' KB to 5865' KB	recovered 58'

DRILL STEM TEST

Date: 12-24-82

Depth: 5614' KB

Formation: Upper Ismay

Packers set at 5533' KB and 5527' KB.

IF 16 min., ISI 60 min, FF 180 min, FSI 60 min,

Recovered 300' of slightly gas cut mud, 180' of slightly oil and highly gas cut mud.

Sample chamber: 2100 cc of oil and gas cut mud, 5.8 FT³ of gas with ≥500 psi pressure.

Pressures at 5599' KB: IF 53#, ISI 1992#, FF 185#, FSI 1582#, IH 3055#, FH 3028#

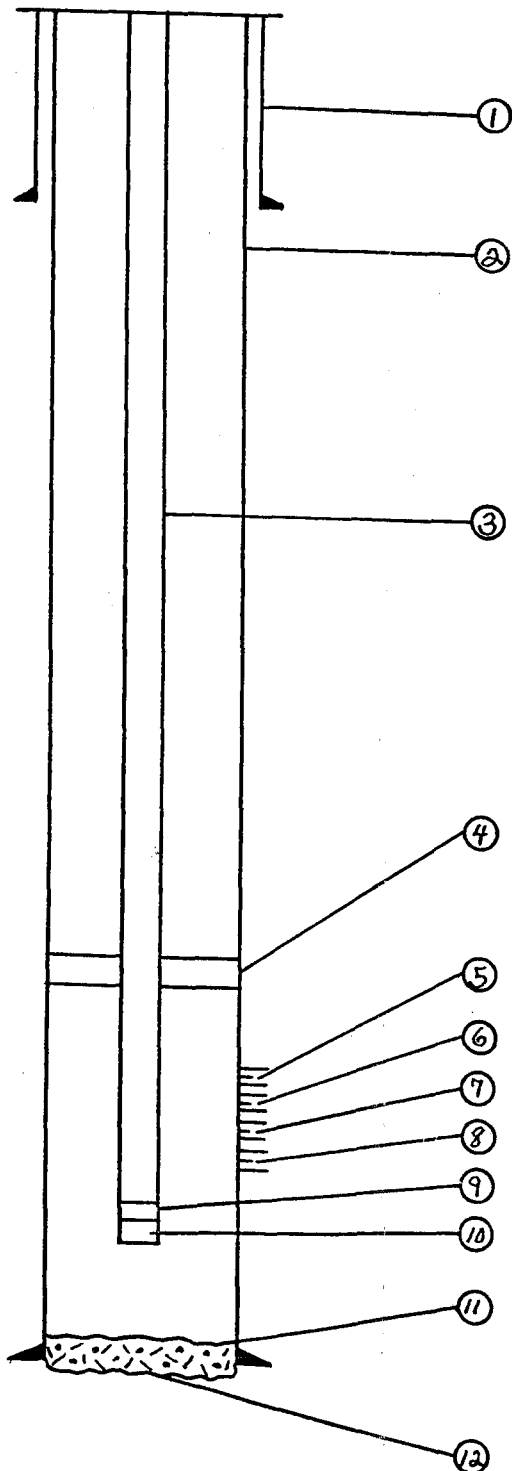
LOGS

Schlumberger
Schlumberger

~~CNL~~, ~~FDC~~, ~~DEL~~, ~~MSF~~, ~~BHC~~
CCL, GR, ~~CBL~~, VDL

12-28-82
1-7-83

TIN CUP MESA #3-23
 SAN JUAN COUNTY, UTAH
 ALL MEASUREMENTS KB
 5170' GL 5184' KB



DESCRIPTION

1. 9 5/8" 40#, K-55 CSG. to 1406'
9 5/8" 36#, K-55 CSG. set at 1488'
2. 5 1/2" 20#, N-80 CSG. set at 5895'
3. 2 7/8" 6.4#, N-80 TBG. to Seating Nipple at 5657'
4. Tubing Anchor at 5527'
5. Ismay Perfs. 5578'-88' 3JSPF, 35 Total
6. Ismay Perfs. 5588'-97' 4JSPF, 36 Total
7. Ismay Perfs. 5608-16', 33-.50" Shots and 30-.53" Shots
8. Ismay Perfs. 5627'-32', perfed twice 2JSPF, 20 Total Shots
9. Seating Nipple at 5657'
10. Mud Anchor to 5672'
11. PBTD 5852' consisting of Fill
12. TD 5895'

PUMP AND ROD STRING

- 2 1/2" x 2" x 16' Pump
 153 - 3/4" Rods
 7 - 7/8" Rods with paraffin scrapers
 1 - 2' x 7/8" Pony Rod
 2 - 4' x 7/8" Pony Rods
 2 - 6' x 7/8" Pony Rods
 1 - 22' Polished Rod

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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1. oil well ☒ gas well ☐ other ☐

2. NAME OF OPERATOR

Marathon Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 2659, Casper WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 1,055.07' FSL & 4,014.20' FEL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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FRACTURE TREAT ☐

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REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) See below.

SUBSEQUENT REPORT OF:

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5. LEASE

U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Tin Cup Mesa Unit

8. FARM OR LEASE NAME

Tin Cup Mesa

9. WELL NO.

3-23

10. FIELD OR WILDCAT NAME

Tin Cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 23, T38S, R25E

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San Juan

Utah

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43-037-30815

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5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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We request an extension of time to finish the pump test on the above captioned well.

The Upper Ismay was perforated on August 25, 1983, from 5578' to 5588'; .45 casing jets, 4 shots/ft.

A total of 15 days is needed, and verbal approval was given to Walt West, Marathon Oil Company, on September 9, 1983, by Mr. Bill Martens, BLM, Branch of Fluid Minerals, Salt Lake City, Utah.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: September 9, 1983 Ft.

BY: [Signature]

Subsurface Safety Valve: Manu. and Type _____

18. I hereby certify that the foregoing is true and correct District

SIGNED Doyle L. Jones TITLE Operations Manager DATE September 9, 1983

by J. Coneal Dist. Engr. (This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY: _____

RECEIVED
SEP 14 1983

9/9/83

*See Instructions on Reverse Side

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,055.07' FSL & 4,014.20' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below

SUBSEQUENT REPORT OF:

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5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Tin Cup Mesa Unit
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
3-23
10. FIELD OR WILDCAT NAME
Tin Cup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
43-037-30815
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5,184' GL, 5,197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROGRESS REPORT

From: 8-26-83 To: 9-13-83

Final Report

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED H. L. Guthrie TITLE Drilling Superintendent DATE Sept. 15, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

TINCUP MESA #3-23

- 8-26-83 FINISHED POOH W/TBG. RIH W/RET HEAD FOR RBP & TBG. RELEASED RBP & POOH W/RBP & TBG. RU GEOSOURCE, LUBRICATOR ETC. RIH W/GUN & COLLAR LOCATOR. GUN LOADED W/35 SHOTS, 3SHOTS ON BOTTOM FT. PERFORATED FROM 5,578' TO 5,588'. POOH W/GUN, ALL SHOTS FIRED. RD GEOSOURCE. RIH W/RBP, RET HEAD, 1 JT OF TBG, MODEL "R" DOUBLE GRIP PACKER, SEATING NIPPLE & 178 JTS OF TBG. TOTAL TBG = 5,631. SET TOP OF RBP @ 5,640'. PULLED UP HOLE 2 JTS. BOTTOM OF RET HEAD AT 5,577'. RU HALLIBURTON TO PUMP SAND SLURRY ON TOP OF RBP. PUMPED 350# OF 20/40 SAND MIXED W/3 BW FOLLOWED BY 27 BBL FLUSH. RELEASED HALLIBURTON, PULLED UP HOLE 6 STANDS. SWI, SDN.
- 8-27-83 CP 0, TP 160. RIH W/6 STANDS TBG TO TAG SAND. RIH TO 5,636', FOUND NO INDICATION OF SAND. PULLED UP HOLE W/TAIPIPE @ 5,605'. MIXED 400# OF 20/40 SAND W/3-1/2 BW. PMPD 3-1/2 BBL OF WTR & SAND & 1/2 BBL OF WTR. SD FOR 5 MINS. PMPD 6 BBL OF WTR AT A RATE OF 1 BPM. PULLED UPHOLE 3 STANDS, SWI FOR 30 MINS (9:30 A.M.). CHECKED @ 10:00 A.M. FOR SAND FILLUP. FOUND 0 FILL. CHECKED @ 10:15 A.M. FILL = 4'. 10:30 A.M. = 6'. 11:15 A.M. = 18' OF FILL. 11:45 A.M. FOUND SAND FILLUP @ 5,616'. SET MODEL "R" DOUBLE GRIP PKR @ 5,521' G.L. TAIPIPE W/RET HEAD @ 5,565' G.L. HAD HALLIBURTON PRESS TEST LINES TO 6,500#. LOADED BACKSIDE (CSG) & PRESSURED TO 1,000# & SI. ESTABLISHED A RATE OF 3 BPM @ 1,000#. PMPD 22 BW. (ALL WTR TREATED W/HALLIBURTON BACTERIASIDE). PMPD PLUG OF 150# OF BENZOIC ACID FLAKE, NO PRESS, FOLLOWED BY 500 GAL OF 28% HCL ACID W/ADDITIVES (2 GAL OF LO-SURF 255, 4 GAL IRON SEQUESTERING AGENT & 2 GAL INHIBITOR) ACID PMPD DOWN TBG @ A RATE OF 2-1/2 BPM @ 1,000#, FOLLOWED BY 23 BBL OF TREATED WATER @ 2 BPM @ 2,000# PRESS. PLUG ON FORMATION AT 2,200# PRESS. RATE = 2-1/2 BPM. ACID ON FORMATION @ 2,200# PRESS, RATE = 2 BPM. SD, MIXED PLUG OF 450# BENZOIC ACID FLAKES. STARTED PMPG 450# PLUG W/1ST ACID ON FORMATION @ 300# PRESS. NO RATE ESTABLISHED. 1ST FLUSH ON FORMATION @ 400#, NO RATE, FOLLOWED BY 500 GAL OF 28% HCL ACID W/ADDITIVES. ACID PMPD DOWN TBG @ 2,000# @ 3 BPM. FOLLOWED W/FLUSH OF TREATED WTR. 2ND PLUG ON FORMATION @ 2,000# W/RATE OF 3 BPM, BLOCKING ACTION TO 2,800# @ A RATE OF 3 BPM. ACID ON FORMATION @ 3,400# @ A RATE OF 2-1/2 BPM. FLUSH ON FORMATION @ 3,400# @ A RATE OF 3 BPM. FINISHED FLUSH OF 70 BBL OF TREATED WTR @ 3,400#, W/RATE OF 3 BPM. TOTAL LOAD FLUID OF ACID, SANDWATER, FLUSH & PLUG WATER = 211 BBL. ISIP = 3,150#, 5 MIN, SIP = 1,440#, 10 MIN = 800#, 15 MIN = 400#, 20 MIN = 370# @ 3:00 P.M. RD HALLIBURTON, SWI @ 5:00 P.M. TBG PRESS HOLDING @ 370#. SDN.
- 8-28-83 CP 1,000#, TP VACUUM. FLUID LEVEL @ 2,300' ON 1ST SWAB RUN. PULLED FLUID LEVEL DOWN TO 4,000' AFTER 15 RUNS. FLUID LEVEL HELD @ 4,000'. FLUID IS GAS CUT. TOTAL FLUID RECOVERED = 139 BBL. FLUID = 36 BO, 103 BW. SWI.
- 8-29-83 SDFS.
- 8-30-83 CP 0, TP 580. OPENED TBG TO PIT. TBG FLOWED 9 BBL OF FLUID IN 18 MINS BEFORE DYING. FOUND FLUID LEVEL @ 2,800' ON 1ST SWAB RUN. FLUID LEVEL HELD @ 3,000'-3,300' FROM 2ND THRU 15TH SWAB RUN. ON 16TH & FINAL SWAB RUN, FLUID LEVEL @ 4,000'. SWABBED TOTAL OF 79 BBL OF FLUID IN 16 RUNS. 22 BO & 57 BW. TOTAL FLUID SWABBED BACK FROM WELL - 218 BBL. RD SWABBED LUBRICATOR & RU TO PULL PKR & TBG. PKR WAS DIFFICULT TO RELEASE. CSG FLOWED AFTER RELEASING PKR. PKR HAD DRAG PULLING UPHOLE. DID NOT GO BACK DOWNHOLE TO TAG SAND FILLUP. POOH W/TBG & PKR. RIH W/RET HEAD & 18 STANDS OF TBG. SWI. SDN.
- 8-31-83 CP 180, TP 150. BLEW WELL DOWN. FINISHED RIH W/TBG & RET HEAD. TAGGED SAND FILL @ 5,616'. REVERSE CIRCULATED FILL OFF OF RBP W/BACTERIASIDE TREATED WTR. WTR LOSS WHILE CIRCULATING OUT FILL WAS 35 BBL. LATCHED ONTO RBP SET @ 5,640' & POOH W/TBG, RET HEAD & BP. RIH W/25' MUD ANCHOR, 1' SN, 4 JTS OF TBG = 126', ANCHOR CATCHER & 175 JTS TBG = 5,492'. 1-6' TBG SUB 1 JT DOWNHOLE. TOTAL JT COUNT = 179 JTS = 5,618'. SN @ 5,643' G.L. TOP OF ANCHOR CATCHER SET @ 5,513' G.L. ANCHOR CATCHER SET 16,000# TENSION. ND BOP. TREED UP WELLHEAD. SWI. SDN.

TINCUP MESA #3-23

- 9-1-83 RIH W/2-1/2" X 2" X 16' PMP W/119" STROKE. 153-3/4" RODS, 75-7/8" RODS W/PARAFFIN SCRAPERS, 1-2' X 7/8" PONY ROD, 2-4' X 7/8" PONY RODS, 2-6' X 7/8" PONY RODS & 1-22' POLISHED ROD. CONNECTED UP WELLHEAD & STARTED WELL PMPG. FILLED TBG W/WTR TO PRESS TEST PMP & TBG. RELEASED RIG & RD. PMPD SWAB OIL RECOVERED INTO FLOWLINE. FLUID LEVEL = 1,914' TO FLUID FROM SURFACE 3,729' FLUID OVER PMP, CSG = 75, TBG = 0. FLUID LEVEL TAKEN BEFORE PUTTING WELL ON PMP.
- 9-2-83 BO 42, BW 233, TF 275 BBL, WC 84%, MCF 45, GOR 1,071, HRS 24.
- 9-3-83 BO 61, BW 166, BF 227, WC 73%, MCF 53, GOR 868.
- 9-4-83 BO 70, BW 150, BF 220, WC 68%, MCF 57, GOR 814.
- 9-5-83 BO 52, BW 117, BF 169, WC 69%, MCF 55, GOR 1,106.
- 9-6-83 BO 53, BW 103, BF 156, WC 66%, MCF 53, GOR 1,000.
- 9-7-83 BO 46, BW 113, TF 159 BBL, WC 71%, MCF 93, GOR 2,021, HRS 24.
- 9-8-83 BO 55, BW 100, TF 155 BBL, WC 65%, MCF 89, GOR 1,618, HRS 24.
- 9-9-83 BO 50, BW 94, TF 144 BBL, WC 65%, MCF 86, GOR 1,509, HRS 21. REASON FOR DOWNTIME, CHANGED STROKE FROM 85" TO 105" (MIDDLE HOLE ON UNIT). FLUID LEVEL = FTF = 5,516, FOP = 121, CP = 53, TP = 53.
- 9-10-83 BO 43, BW 93, TF 136 BBL, WC 68%, GOR 1,930, HRS 24.
- 9-11-83 BO 48, BW 89, TF 137 BBL, WC 64%, MCF 80, GOR 1,666, HRS 24. FLUID LEVEL = FTF = 5,647, FOP 0', CP 53, TP 53, SPM 95.
- 9-12-83 WELL COMPLETED AS OF 9-9-83: 53 BOPD, 107 BWPD, 89 MCFD, 160 BFPD, 67%, GOR 1,679, FTF 5,647, FOP 0', (10 SPM X 85"). WILL DROP FROM REPORT. FINAL REPORT.
- 9-13-83 BOTH WELLS SHUT-IN AT 8:00 A.M. COMPLETION TESTS ARE FOR 18 HRS EXTRAPOLATED TO 24 HRS. BO 52, BW 89, TF 141 BBL, WC 63%, MCF 73, GOR 1,403, HRS 18.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☐ other ☐ Step Rate Injection Tests

2. NAME OF OPERATOR

Marathon Oil Company

3. ADDRESS OF OPERATOR

PO Box 2659, Casper WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

(1-25) 1950' FNL & 790' FWL
AT SURFACE: (3-23) 1555.7' FSL &
AT TOP PROD. INTERVAL: 4014.20' FEL
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) Please see attachment.

SUBSEQUENT REPORT OF:

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5. LEASE

U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Tin Cup Mesa Unit

8. FARM OR LEASE NAME

Tin Cup Mesa

9. WELL NO.

1-25 & 3-23

10. FIELD OR WILDCAT NAME

Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR

AREA (1-25) Sec. 25, T38S, R25E
(3-23) Sec. 23, T38S, R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

14. API NO.

(1-25) 43-037-30690 (3-23) 43-037-30815

15. ELEVATIONS (SHOW DF, KDB, AND WD)

(1-25) 4985' GL (3-23) 5184' GL
4999' KB 5197' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attachments, (1)

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 10/25/83

BY: [Signature]

RECEIVED
OCT 20 1983

DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct District

SIGNED Doyle Jones TITLE Operations Manager DATE October 13, 1983

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

10/13

Step Rate Injection Tests
17.

We propose the following tests:

Step rate injectivity tests to determine the feasibility of water injection in the Tin Cup Mesa Field, Ismay Formation. The tests will determine formation fracture pressure at a corresponding injection rate.

The injectivity tests will be performed on wells #1-25 and #3-23, and fresh water will be used. The existing tubing and rod strings will be pulled and the tubing rerun with a packer. Several different injection rates will be used with at least two rates above frac pressure. Both surface and downhole pressure will be measured. Tin Cup Mesa #1-25 will require setting a cement retainer at 5545' KB and the Desert Creek perforations (5652 - 5662' KB) squeezed with 100 sacks cement.

This proposed testing was discussed between Mr. Bill Martens, BLM, Salt Lake City Office and Walt West, Marathon Oil Company, Casper WY.

Work will commence upon approval.

Handwritten signature
10/12



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

November 8, 1983

Marathon Oil Company
P.O. Box 2659
Casper, Wyoming 82602

RE: Well No. Tin Cup Mesa #3-23
API # 43-037-30815
Sec. 23, T. 38S, R 25E.
San Juan County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office July 29, 1983 from the above referred to well, indicates the following electric logs were run: CNL-FDC, DLL-MSFL, BHC, CCL, GR, CBL, and VDL. As of today's date, this office has not received these logs: CCL, GR, & VDL.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgment should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Claudia Jones
Well Records Specialist

CJ/cj



Governor
DEPARTMENT OF ENVIRONMENTAL HEALTH
Utah Water Pollution Control Committee
150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110-2500

November 15, 1983
533-6146

Calvin K. Sudweeks
Executive Secretary
Rm 410 (801) 533-6146

James O. Mason, M.D., Dr.P.H.
Executive Director
Department of Health
801-533-6111

Kenneth L. Alkema
Director
Division of Environmental Health
801-533-6121

MEMBERS

Grant K. Borg, Chairman
W. Lynn Cottrell
Harold B. Lamb
Kenneth L. Alkema
Franklin N. Davis
Dale P. Bateman
Joseph A. Urbanik
C. Arthur Zeldin
Mrs. Lloyd G. Bliss

Mr. Walt West
Regulatory Coordinator
Marathon Oil Co.
Casper, Wyoming 82602

RE: Construction Permit for
✓ Disposal Pond
Section 23+26 T38S R25E

2-23
3-23
3-26
4-26

Dear Mr. West:

A review of your file and inspection of your property indicate that you have complied with the minimum requirements to obtain an approval for a properly designed disposal pond located in Sections 23+26 T38S R25E for disposal of produced waters from oil and gas wells. We commend you for your cooperative attitude in following the State requirements and for your desire to protect the surface and subsurface waters of the State.

The system consists of 1 large evaporation pond (420' x 270') and the total liquid volume of the system is approximately 307,584 ft³.

Before receiving final approval, our bureau also requests a submittal to this office of the frequency of monitoring data and the specific parameters which will be measured. This data should be submitted on a timely basis (recommended within 60 days of the sampling date.)

The pond has been designed according to State standards and as a result, a construction permit is hereby issued as constituted by this letter. A final inspection must be conducted after construction but prior to putting the facility into operation.

If you have any questions, please call Jerry Riding or Fred Pehrson at the above number.

Sincerely,

UTAH WATER POLLUTION CONTROL COMMITTEE

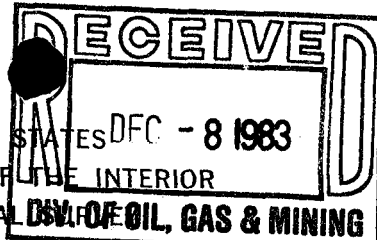
Calvin K. Sudweeks
Executive Secretary

JRR:na

cc: Division of Oil, Gas and Mining
Utah District Health Dept.
BLM/Oil and Gas Operation
Division of Water Rights

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Form Approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) See Below ☐

SUBSEQUENT REPORT OF:

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5. LEASE
U-31928
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
--
7. UNIT AGREEMENT NAME
Tin Cup Mesa
8. FARM OR LEASE NAME
Tin Cup Mesa
9. WELL NO.
--
10. FIELD OR WILDCAT NAME
Tin Cup Mesa
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 23, 25, 26, T38S, R25E
12. COUNTY OR PARISH
San Juan
13. STATE
Utah
14. API NO.
--
15. ELEVATIONS (SHOW DF, KDB, AND WD)
--

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We appreciate the extension of time giving us 15 days beyond the original 30 day approval. (See attached copies of Federal and State approvals.)

At the present time our schedule calls for equipment start-up on the gas lease facility December 12, 1983, with pipeline delivery to commence December 15, 1983. This time interim is within the approved time limit. However, in case another storm occurs or other variables enter in, the current approved time might be exceeded by a few days. Therefore, to have proper clearance we request an additional 15 days of time. As indicated, we may or may not need this extension, but in case we do we would appreciate your approvals of this contingency.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct District
SIGNED Doyle L. Jones TITLE Operations Manager DATE December 5, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

DATE _____
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 12/9/83
BY: [Signature]

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN THE MANNER
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME Tin Cup Mesa <input checked="" type="checkbox"/>
2. NAME OF OPERATOR Marathon Oil Company		8. FARM OR LEASE NAME Tin Cup Mesa Unit
3. ADDRESS OF OPERATOR P.O. Box 2659, Casper, WY 82602		9. WELL NO. All Unit Wells
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Wells: #3-26, #4-26, #2-23, #3-23		10. FIELD AND POOL, OR WILDCAT Tin Cup Mesa Field
14. PERMIT NO. N/A	15. ELEVATIONS (Show whether DF, RT, GR, etc.) N/A	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, Sec. 26, T38S, R25E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data :

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Request to Commingle Production <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We request approval to commingle the oil, gas, and water production from the four producing wells in the Tin Cup Mesa Unit. These wells are #2-23, #3-23, #3-26, and #4-26. The participating area for Well #3-26 was approved April 27, 1982. Applications for revision to the participating area were submitted as follows: Well #2-23 was submitted March 21, 1983, Well #3-23 was submitted October 17, 1983, and Well #4-26 was submitted November 23, 1983.

Commingled production will be allocated to the individual well on the basis of monthly well tests and gas analyses.

18. I hereby certify that the foregoing is true and correct

SIGNED

Doyle L. Jara

TITLE

District
Operations Manager

DATE

January 6, 1984

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Gas Surface Facility		5. LEASE DESIGNATION AND SERIAL NO. U-31928
2. NAME OF OPERATOR Marathon Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 2659, Casper, WY 82602		7. UNIT AGREEMENT NAME Tin Cup Mesa
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface --		8. FARM OR LEASE NAME Tin Cup Mesa
		9. WELL NO. -- 1-25 etc
		10. FIELD AND POOL, OR WILDCAT Tin Cup Mesa
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 25, T38S, R25E
14. PERMIT NO. --	15. ELEVATIONS (Show whether DF, RT, CR, etc.) --	12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) Please See Below

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SURFACE FACILITIES, TIN CUP MESA UNIT

Reporting of unavoidable loss of oil, gas, or gas products due to equipment malfunctions, fires, line breaks, etc., shall be reported in accordance with NTL-4.

Emergencies requiring the venting or flaring of gas will be followed by specific requirements contained in Items 1 A. and 1 B. (1), (2), and (3) of the NTL-4.

Good engineering practices will be maintained at all times during the operation of Tin Cup Mesa surface facilities.

RECEIVED
JAN 18 1984

**DIVISION OF
OIL, GAS & MINING**
District

18. I hereby certify that the foregoing is true and correct

SIGNED

Doyle James

TITLE Operations Manager

DATE Jan. 16, 1984

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

BEFORE THE DIVISION OF OIL, GAS AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

IN THE MATTER OF THE APPLICATION
OF MARATHON OIL COMPANY, FOR
ADMINISTRATIVE APPROVAL TO
INJECT WATER INTO CERTAIN WELLS
LOCATED IN SAN JUAN COUNTY,
UTAH

CAUSE NO. UIC-033

*Will be published
w/ corrections - July 22
32167 - San Juan County*

THE STATE OF UTAH TO ALL PERSONS, OWNERS PRODUCERS, OPERATORS, PURCHASERS AND
TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SAN JUAN
COUNTY, UTAH:

NOTICE IS HEREBY GIVEN that Marathon Oil Company, P.O. Box 2659, Casper, WY
82602 is requesting that the Division authorize the approval to convert the well
mentioned below, to water injection wells as follows:

Township 38 South, Range 25 East

Sec. 25, Well # 1-25 SW/NW

Township 38 South, Range 25 East

Sec. 23, Well # 3-23 SW/SW

INJECTION ZONE: (WELL # 1-25) Ismay 5416' to 5482' - (WELL # 3-23) Ismay
5578' to 5647'

MAXIMUM INJECTION PRESSURE: 3,600 psi

MAXIMUM INJECTION RATE: ^{3500 to 4000} 2,000 barrels of water per day

This application will be granted unless objections are filed with the Division
of Oil, Gas and Mining within fifteen days after publication of this Notice.
Objections if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241
State Office Building, Salt Lake City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Marjorie L. Larson

MARJORIE L. LARSON
Administrative Assistant



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 10, 1984

Newspaper Agency
Legal Advertizing
Mezzanine Floor
143 South Main Street
Salt Lake City, Utah 84111

RE: CAUSE NO. UIC-033

Gentlemen:

Attached hereto is a Notice of Application for Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 16th day of Feb.. In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

MARJORIE L. LARSON
Administrative Assistant



4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 10, 1984

San Juan Record
Legal Advertizing
Monticello, Utah 84535

RE: CAUSE NO. UIC-033

Gentlemen:

Attached hereto is a Notice of Application for Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 16th day of Feb.. In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

MARJORIE L. LARSON
Administrative Assistant

CLYDE, PRATT, GIBBS & CAHOON

EDWARD W. CLYDE
ELLIOTT LEE PRATT
WILLIAM G. GIBBS
RICHARD C. CAHOON
RODNEY G. SNOW
STEVEN E. CLYDE
THEODORE BOYER, JR.
L. MARK FERRE
EDWIN C. BARNES
DOUGLAS G. MORTENSEN
GARY L. PAXTON
NEIL A. KAPLAN
D. BRENT ROSE
JOHN W. ANDERSON
JAMES L. WARLAUMONT
H. MIFFLIN WILLIAMS III
JEFFREY W. APPEL
JENNIFER M. HANSEN

ATTORNEYS AT LAW
200 AMERICAN SAVINGS PLAZA
77 WEST SECOND SOUTH
SALT LAKE CITY, UTAH 84101

PHONE 322-2516
AREA CODE 801

TELECOPIER:
(801) 322-2516

OF COUNSEL
FRANK J. ALLEN
ROLAND R. WRIGHT

February 13, 1984

FILE NO.

RECEIVED
FEB 17 1984

**DIVISION OF
OIL, GAS & MINING**

Mr. Cleon Feight, Manager
UIC Program
Utah Board of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Well Conversion Applications: 1-25 and 3-23 Tin Cup Mesa

Dear Mr. Feight:

On behalf of Marathon Oil Company I am submitting the enclosed applications to convert Tin Cup Mesa wells 1-25 and 3-23 from production to Class II Injection Wells under Rules I-1 to I-9 of the Board of Oil, Gas and Mining.

Please advise us of any further information which you require in making your determination on the issuance of the Class II permits for these individual injection wells.

Sincerely yours,

CLYDE, PRATT, GIBBS & CAHOON

Dennis C. Stickley
Dennis C. Stickley

DCS/dp

Enclosures

*This legal requirement 2-22-84 by order of Chron Feght, Utah commission furnished
Wrong injection rate for 15 legal*

AFFIDAVIT OF PUBLICATION

PUBLIC NOTICE

BEFORE THE DIVISION OF OIL,
GAS AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

IN THE MATTER OF THE AP-
PLICATION OF MARATHON OIL
COMPANY, FOR ADMINISTRA-
TIVE APPROVAL TO INJECT
WATER INTO CERTAIN WELLS
LOCATED IN SAN JUAN
COUNTY, UTAH

CAUSE NO. UIC-033

THE STATE OF UTAH TO
ALL PERSONS, OWNERS PRO-
DUCERS, OPERATORS, PUR-
CHASERS AND TAKERS OF OIL
AND GAS AND ALL OTHER
INTERESTED PERSONS. PAR-
TICULARLY IN SAN JUAN
COUNTY, UTAH:

NOTICE IS HEREBY GIVEN
that Marathon Oil Company,
P. O. Box 2659, Casper, WY
82602 is requesting that the
Division authorize the approval
to convert the well mentioned
below, to water injection wells
as follows:

Township 38 South, Range
25 East

Sec. 25, Well # 1-25 SW/NW
Township 38 South, Range
25 East

Sec. 23, Well # 3-23 SW/SW
INJECTION ZONE: (WELL #
1-25) Ismay 5416' to 5482' -
(WELL # 3-23) Ismay 5578' to
5647'

MAXIMUM INJECTION PRES-
SURE: 3,600 psi

MAXIMUM INJECTION RATE:
2,000 barrels of water per day

This application will be granted
unless objections are filed with
the Division of Oil, Gas and
Mining within fifteen days after
publication of this Notice. Ob-
jections if any, should be mailed
to: Division of Oil, Gas and
Mining, Room 4241 State Office
Building, Salt Lake City, Utah
84114.

STATE OF UTAH
DIVISION OF OIL, GAS
AND MINING

Marlayne Poulsen, for
MARJORIE L. LARSON
Administrative Assistant

Published in The San Juan Record
February 15, 1984.

I, Joyce Martin, duly sworn,

depose and say that I am the publisher of the San
Juan Record, a weekly newspaper of general circulation
published at Monticello, Utah, every Wednesday, that
notice UIC-033, Marathon Oil

a copy of which is hereunto attached, was published in
the regular and entire issue of each number of said
newspaper for a period of 1 issues, the first
publication having been made on February 15, 1984
and the last publication having been made on

Signature

Joyce A. Martin
Publisher

Subscribed and sworn to before me this 22nd
day of February, A.D. 1984.

Ingrid K. Adam
Notary Public

Residing at Monticello, Utah

My commission expires December 2, 1987

*Erron. Wrong figure provided by Utah Records.
Chron Feght. Corrected legal publication 2-22-84*

AFFIDAVIT OF PUBLICATION

PUBLIC NOTICE

BEFORE THE DIVISION OF OIL,
GAS AND MINING

Room 4241 State Office Building
Salt Lake City, Utah 84114

IN THE MATTER OF THE AP-
PLICATION OF MARATHON OIL
COMPANY, FOR ADMINISTRA-
TIVE APPROVAL TO INJECT
WATER INTO CERTAIN WELLS
LOCATED IN SAN JUAN
COUNTY, UTAH

CAUSE NO. UIC-033

THE STATE OF UTAH TO
ALL PERSONS, OWNERS PRO-
DUCERS, OPERATORS, PUR-
CHASERS AND TAKERS OF OIL
AND GAS AND ALL OTHER
INTERESTED PERSONS. PAR-
TICULARLY IN SAN JUAN
COUNTY, UTAH:

NOTICE IS HEREBY GIVEN
that Marathon Oil Company,
P. O. Box 2659, Casper, WY
82602 is requesting that the
Division authorize the approval
to convert the well mentioned
below, to water injection wells
as follows:

Township 38 South, Range
25 East

Sec. 25, Well # 1-25 SW/NW
Township 38 South, Range
25 East

Sec. 23, Well # 3-23 SW/SW
INJECTION ZONE: (WELL #
1-25) Ismay 5416' to 5482' -
(WELL # 3-23) Ismay 5578' to
5647'

MAXIMUM INJECTION PRES-
SURE: 3,600 psi

MAXIMUM INJECTION RATE:
2,500 to 4,000 barrels of water per
day.

This application will be granted
unless objections are filed with
the Division of Oil, Gas and
Mining within fifteen days after
publication of this Notice. Ob-
jections if any, should be mailed
to Division of Oil, Gas and
Mining, Room 4241 State Office
Building, Salt Lake City, Utah
84114

STATE OF UTAH
DIVISION OF OIL, GAS
AND MINING

Marlayne Poulsen, for

MARJORIE L. LARSON

Administrative Assistant

Published in The San Juan Record
February 22, 1984

I, Joyce Martin, duly sworn,

depose and say that I am the publisher of the San
Juan Record, a weekly newspaper of general circulation
published at Monticello, Utah, every Wednesday, that
notice UIC-033, Marathon Oil

a copy of which is hereunto attached, was published in
the regular and entire issue of each number of said
newspaper for a period of 1 issues, the first
publication having been made on February 22, 1984
and the last publication having been made on _____

Signature

Joyce A. Martin
Publisher

Subscribed and sworn to before me this 22nd

day of February, A.D. 1984

Ingrid K. Adams
Notary Public
Residing at Monticello, Utah

My commission expires December 2, 1987

Affidavit of Publication

ADM-35B

STATE OF UTAH,
County of Salt Lake

SS.

Cheryl Gierloff

Being first duly sworn, deposes and says that he/she is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah, and of the DESERET NEWS, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

That the legal notice of which a copy is attached hereto

Notice of Hearing - Application of
Marathon Oil Co.

was published in said newspaper on

February 16, 1984

Cheryl Gierloff
Legal Advertising Clerk

Subscribed and sworn to before me this 1st day of

March A.D. 1984

Joyce L. Marlar
Notary Public

My Commission Expires

July 23, 1986

BEFORE THE DIVISION OF OIL, GAS and mining
Room 4241 State Office Building
Salt Lake City, Utah 84114
CAYSE 81, UIC-033

IN THE MATTER OF THE APPLICATION OF MARATHON OIL COMPANY, FOR ADMINISTRATIVE APPROVAL TO INJECT WATER INTO CERTAIN WELLS LOCATED IN SAN JUAN COUNTY, UTAH

THE STATE OF UTAH TO ALL PERSONS, OWNERS PRODUCERS, OPERATORS, PURCHASERS AND TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN SAN JUAN COUNTY, UTAH:

NOTICE IS HEREBY GIVEN that Marathon Oil Company, P.O. Box 2659, Casper, WY 82602 is requesting that the Division authorize the approval to convert the well mentioned below, to water injection wells as follows:

Township 38 South, Range 25 East

Sec. 25, Well # 1-25 SW/NW

Township 38 South, Range 25 East

Sec. 23, Well # 3-23 SW/SW

INJECTION ZONE: (WELL #1-25) Ismay 5416' to 5482'

(WELL #3-23) Ismay 5578' to 5647'

MAXIMUM INJECTION PRESSURE: 3,600 psi

MAXIMUM INJECTION RATE: 2000 barrels of water per day

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections if any, should be mailed to: Division of Oil, Gas and Mining, Room 4241 State Office Building, Salt Lake City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
MARJORIE L. LARSON
Administrative Assistant

D-18

Affidavit of Publication

ADM-358

STATE OF UTAH,
County of Salt Lake

SS.

DIVISION OF

OIL, GAS & MINING

Cheryl Gierloff

AMENDED NOTICE
CAUSE NO. UIC-033
BEFORE THE DIVISION OF
OIL, GAS AND MINING
Salt Lake City, Ut. 84114

IN THE MATTER OF THE
APPLICATION OF MARA-
THON OIL COMPANY, FOR
ADMINISTRATIVE APPROV-
AL TO INJECT WATER INTO
CERTAIN WELLS LOCATED
IN SAN JUAN COUNTY,
UTAH.

THE STATE OF UTAH TO
ALL PERSONS, OWNERS
PRODUCERS, OPERATORS,
PURCHASERS AND TAKERS
OF OIL AND GAS AND ALL
OTHER INTERESTED PER-
SONS, PARTICULARLY IN
SAN JUAN COUNTY, UTAH:
NOTICE IS HEREBY GIVEN
that Marathon Oil Company,
P.O. Box 2659, Casper, Wyo-
ning 82602 is requesting that the
Division authorize the approval
to convert the well mentioned
below, to water injection wells
as follows:

Township 28 South,
Range 25 East
Sec. 25, Well #1-25 SW/NW
Township 28 South,
Range 25 East
Sec. 23, Well #3-23 SW/SW
INJECTION ZONE: (WELL
#1-25) Ismay 5416' to 5482'-
(WELL #3-23) Ismay 5578' to
5647'

MAXIMUM INJECTION PRES-
SURE: 3,600 psi
MAXIMUM INJECTION
RATE: 3,500 to 4,000 barrels of
water per day

This application will be
granted unless objections are
filed with the Division of Oil,
Gas and Mining within fifteen
days after publication of this
notice. Objections, if any,
should be mailed to: Division of
Oil, Gas and Mining, Room 424
State Office Building, Salt Lake
City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL,
GAS AND MINING
MARJORIE L. LARSON
Administrative Assistant

Being first duly sworn, deposes and says that he/she is
legal advertising clerk of THE SALT LAKE TRIBUNE,
a daily newspaper printed in the English language with
general circulation in Utah, and published in Salt Lake
City, Salt Lake County, in the State of Utah, and of the
DESERET NEWS, a daily newspaper printed in the
English language with general circulation in Utah, and
published in Salt Lake City, Salt Lake County, in the
State of Utah.

That the legal notice of which a copy is attached hereto

Amended Notice Cause No. UIC-033 -

Application of Marathon Oil Company

was published in said newspaper on

February 22, 1984

Cheryl Gierloff
Legal Advertising Clerk

Subscribed and sworn to before me this 1st day of

March A.D. 1984

Joyce L. Marlow
Notary Public

My Commission Expires

July 23, 1986

Affidavit of Publication

ADM-358

STATE OF UTAH,

County of Salt Lake

SS.

AMENDED NOTICE
CAUSE NO. UIC-033
BEFORE THE DIVISION OF
OIL, GAS AND MINING
Salt Lake City, Ut. 84114

IN THE MATTER OF THE
APPLICATION OF MARA-
THON OIL COMPANY, FOR
ADMINISTRATIVE APPROV-
AL TO INJECT WATER INTO
CERTAIN WELLS LOCATED
IN SAN JUAN COUNTY,
UTAH.

THE STATE OF UTAH TO
ALL PERSONS, OWNERS,
PRODUCERS, OPERATORS,
PURCHASERS AND TAKERS
OF OIL AND GAS AND ALL
OTHER INTERESTED PER-
SONS, PARTICULARLY IN
SAN JUAN COUNTY, UTAH:

NOTICE IS HEREBY GIVEN
that Marathon Oil Company,
P.O. Box 2659, Casper, Wyo-
ming 82602 is requesting that the
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convert the well mentioned
below, to water injection wells
as follows:

Township 38 South,
Range 25 East
Sec. 25, Well #1-25 SW/NW

Township 38 South,
Range 25 East

Sec. 23, Well #3-23 SW/SW
INJECTION ZONE: (WELL
#1-25) Ismay 5416' to 5482'-
(WELL #3-23) Ismay 5578' to
5647'

MAXIMUM INJECTION PRES-
SURE: 3,600 psi.

MAXIMUM INJECTION
RATE: 3,500 to 4,000 barrels of
water per day.

This application will be
granted unless objections are
filed with the Division of Oil,
Gas and Mining within fifteen
days after publication of this
Notice. Objections, if any,
should be mailed to: Division of
Oil, Gas and Mining, Room 424,
State Office Building, Salt Lake
City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL,
GAS AND MINING
MARJORIE L. LARSON
Administrative Assistant

D-74

.....Cheryl Gierloff.....

DIVISION OF
OIL, GAS & MINING

Being first duly sworn, deposes and says that he/she is
legal advertising clerk of THE SALT LAKE TRIBUNE,
a daily newspaper printed in the English language with
general circulation in Utah, and published in Salt Lake
City, Salt Lake County, in the State of Utah, and of the
DESERET NEWS, a daily newspaper printed in the
English language with general circulation in Utah, and
published in Salt Lake City, Salt Lake County, in the
State of Utah.

That the legal notice of which a copy is attached hereto

.....Amended Notice Cause No. UIC-033.....

.....Application of Marathon Oil Company.....

was published in said newspaper on.....

.....February 22, 1984.....

Cheryl Gierloff
Legal Advertising Clerk

Subscribed and sworn to before me this1st..... day of

.....March..... A.D. 19...34...

Joyce L. Marlar
Notary Public

My Commission Expires

.....July 23, 1986.....

Affidavit of Publication

ADM-35B

STATE OF UTAH,

County of Salt Lake

SS.

Cheryl Gierloff

Being first duly sworn, deposes and says that he/she is legal advertising clerk of THE SALT LAKE TRIBUNE, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah, and of the DESERET NEWS, a daily newspaper printed in the English language with general circulation in Utah, and published in Salt Lake City, Salt Lake County, in the State of Utah.

That the legal notice of which a copy is attached hereto

Notice of Hearing - Application of

Marathon Oil Co.

was published in said newspaper on

February 16, 1984

Cheryl Gierloff
Legal Advertising Clerk

Subscribed and sworn to before me this 1st day of

March

A.D. 1984

Joyce L. Marlar
Notary Public

My Commission Expires

July 23, 1986

DIVISION OF
OIL, GAS & MINING

BEFORE THE DIVISION OF OIL, GAS AND MINING
Salt Lake City, Utah 84114

IN THE MATTER OF THE APPLICATION)	
OF MARATHON OIL COMPANY, FOR)	
ADMINISTRATIVE APPROVAL TO)	CAUSE NO. UIC-033
INJECT WATER INTO CERTAIN WELLS)	AMENDED NOTICE
LOCATED IN SAN JUAN COUNTY, UTAH)	

THE STATE OF UTAH TO ALL PERSONS, OWNERS PRODUCERS, OPERATORS, PURCHASERS
AND TAKERS OF OIL AND GAS AND ALL OTHER INTERESTED PERSONS, PARTICULARLY IN
SAN JUAN COUNTY, UTAH:

NOTICE IS HEREBY GIVEN that Marathon Oil Company, P.O. Box 2659, Casper,
Wyoming 82602 is requesting that the Division authorize the approval to
convert the well mentioned below, to water injection wells as follows:

Township 38 South, Range 25 East

Sec. 25, Well # 1-25 SW/NW

Township 38 South, Range 25 East

Sec. 23, Well # 3-23 SW/SW

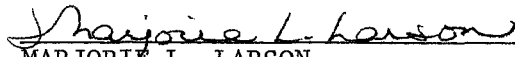
INJECTION ZONE: (WELL # 1-25) Ismay 5416' to 5482' - (WELL # 3-23)
Ismay 5578' to 5647'

MAXIMUM INJECTION PRESSURE: 3,600 psi

MAXIMUM INJECTION RATE: 3,500 to 4,000 barrels of water per day

This application will be granted unless objections are filed with the
Division of Oil, Gas and Mining within fifteen days after publication of this
Notice. Objections if any, should be mailed to: Division of Oil, Gas and
Mining, Room 4241 State Office Building, Salt Lake City, Utah 84114.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING


MARJORIE L. LARSON
Administrative Assistant



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

March 19, 1984

Marathon Oil Company
P.O. Box 2659
Casper, Wyoming 82602

RE: Injection Well Approval
Cause No. UIC-033
Wells #1-25 & #3-23
Sec. 25 and 23, T38S, R25E
San Juan County, Utah.

Gentlemen:

Administrative approval is hereby granted to convert the above referenced wells to enhanced recovery water injection wells. This approval is conditional upon full compliance with the UIC rules and regulations adopted by the Board of Oil, Gas and Mining, and construction and operation of the well as outlined in the application submitted.

If you have any questions concerning this matter, please do not hesitate to call or write.

Best Regards,

Dianne R. Nielson
Director

DN/GH/mfp
76270

Casper Division
Production United States



**Marathon
Oil Company**

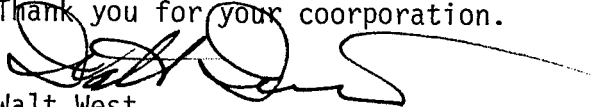
P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/577-1555

March 26, 1984

TO WHOM IT MAY CONCERN:

The attached documents are in order as approved by the State of Utah, UIC. It is imperative that these documents be kept in this order.

Thank you for your cooperation.


Walt West
Regulatory Coordinator

WEW:jmb

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions on re-
verse side)

Form approved,
Budget Bureau No. 1001-1
Expires August 31, 1984

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection	5. LEASE DESIGNATION AND SERIAL NO. U-31928
2. NAME OF OPERATOR Marathon Oil Company	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 2659, Casper, WY 82602	7. UNIT AGREEMENT NAME Tin Cup Mesa
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1,055' FSL & 4,014' FEL	8. FARM OR LEASE NAME Tin Cup Mesa
14. PERMIT NO. 43-037-30815	9. WELL NO. 3-23
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,170' GL, 5,184' KB	10. FIELD AND POOL, OR WILDCAT Tin Cup Mesa
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 23, T38S, R25E
	12. COUNTY OR PARISH San Juan
	13. STATE Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	Please See Below <input checked="" type="checkbox"/>

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We propose to convert Tin Cup Mesa Well #3-23 to a water injection well, as part of our proposed waterflood pressure maintenance project.

Attached is a copy of Utah State UIC letter of administrative approval, Cause No. UIC-033, and a copy of Marathon's compliance for approval with UIC rules and regulations.

RECEIVED

MAR 30 1984

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Doyle J. Mc

TITLE

District
Operations Manager

DATE March 26, 1984

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

RECEIVED
MAR 14 1985
DIVISION OF OIL
& MINING

CORE ANALYSIS REPORT

FOR

MARATHON OIL COMPANY

VARIOUS WELLS
TIN CUP MESA FIELD
SAN JUAN COUNTY, UTAH

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 1

MARATHON OIL COMPANY
VARIOUS WELLS
TIN CUP MESA FIELD
SAN JUAN COUNTY, UTAH

DATE : 11-NOV-84
FORMATION :
DRLG. FLUID: WATER BASE MUD
LOCATION :

FILE NO : 3804-6918
ANALYSTS : S.S.
ELEVATION:

VERTICAL PERM ANALYSIS-VARIOUS WELLS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM VERTICAL	DESCRIPTION
#1-23 TIN CUP MESA			
4	5575.0-76.0	0.01	
5	5576.0-77.0	0.01	
14	5585.0-86.0	0.09	
17	5588.0-89.0	0.17	
#1-25 TIN CUP MESA			
1	5452.0-53.0	0.10	
5	5456.0-57.0	0.13	
6	5416.0-17.0	0.04	
9	5419.0-20.0	2.11	
12	5422.0-23.0	0.01	
16	5426.0-27.0	0.93	
20	5430.0-31.0	3.47	
25	5435.0-36.0	0.03	
37	5447.0-48.0	0.03	
20	5471.0-72.0	0.09	
43	5474.0-75.0	2.32	
#2-23 TIN CUP MESA			
7	5460.0-61.0	30.	
20	5473.0-74.0	0.92	
24	5477.0-78.0	0.96	
32	5485.0-86.0	0.07	

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE 2

MARATHON OIL COMPANY
 VARIOUS WELLS

DATE : 11-NOV-84
 FORMATION :

FILE NO : 3804-6918
 ANALYSTS : S.S.

VERTICAL PERM ANALYSIS-VARIOUS WELLS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM VERTICAL	DESCRIPTION
------------------	-------	---------------------------------------	-------------

45	5498.0-99.0	0.15	
56	5509.0-10.0	0.04	
60	5513.0-14.0	1.70	
62	5515.0-16.0	0.07	
64	5517.0-18.0	0.64	
71	5524.0-25.0	0.04	
76	5529.0-30.0	0.01	
83	5536.0-37.0	0.86	
84	5537.0-38.0	0.64	
87	5540.0-41.0	7.10	
90	5543.0-44.0	0.04	
108	5561.0-62.0	0.27	
111	5564.0-65.0	0.17	

#3-23 TIN CUP NESA

11	5589.0-90.0	9.23	
18	5596.0-97.0	0.02	
26	5604.0-05.0	0.04	
30	5608.0-09.0	0.02	
31	5609.0-10.0	1.27	
33	5611.0-12.0	0.02	
38	5616.0-17.0	0.09	
41	5619.0-20.0	0.20	
47	5625.0-26.0	0.04	
51	5629.0-30.0	1.42	
55	5633.0-34.0	6.40	
60	5638.0-39.0	0.54	
63	5641.0-42.0	43.	
66	5644.0-45.0	0.53	

*385 25E 23
 W1W*

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PAGE 3

MARATHON OIL COMPANY
VARIOUS WELLS

DATE : 11-NOV-84
FORMATION :

FILE NO : 3804-6918
ANALYSTS : S.S.

VERTICAL PERM ANALYSIS-VARIOUS WELLS

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM VERTICAL	DESCRIPTION
69	5647.0-48.0	2.55	
	#3-26 TIN CUP MESA		
3	5467.0-68.0	0.81	
7	5471.0-72.0	0.01	
17	5481.0-82.0	12.	
22	5486.0-87.0	3.27	
27	5491.0-92.0	4.38	
37	5501.0-02.0	8.86	
46	5510.0-11.0	0.05	
47	5511.0-12.0	0.73	
52	5516.0-17.0	3.62	
60	5524.0-25.0	0.93	
71	5535.0-36.0	0.03	
75	5539.0-40.0	16.	
78	5542.0-43.0	0.01	
89	5553.0-54.0	4.20	
101	5565.0-66.0	0.18	

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5 & RULE I-4)

FORM NO. DOGM-UIC-1
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF
Marathon Oil Company

ADDRESS P.O. Box 2659
Casper, WY ZIP 82602
INDIVIDUAL PARTNERSHIP CORPORATION X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE 3-23 Tin Cup Mesa WELL
SEC. 23 TWP. 38S RANGE 25E
San Juan COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL ☒
DISPOSAL WELL ☐
LP GAS STORAGE ☐
EXISTING WELL (RULE I-4) ☐

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name <u>Tin Cup Mesa</u>	Well No. <u>3-23</u>	Field <u>Tin Cup Mesa</u>	County <u>San Juan</u>
Location of Enhanced Recovery Injection or Disposal Well <u>1055' FSL 4014' FEL</u> Sec. <u>23</u> Twp. <u>38S</u> Rge. <u>25E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input type="checkbox"/> No <input type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>1-8-83</u> <u>3000'</u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>None</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input type="checkbox"/> NO <input type="checkbox"/>		State What
Location of Injection Source(s) <u>N26°1'W 1,881'</u> <u>to NW Corner of Sec. 25</u>		Geologic Name(s) and Depth of Source(s) <u>Cutler</u> <u>2,900' KB</u>	
Geologic Name of Injection Zone <u>Ismay</u>		Depth of Injection Interval <u>5578'</u> to <u>5647' (KB)</u>	
a. Top of the Perforated Interval: <u>5578' KB</u>	b. Base of Fresh Water: <u>0</u>	c. Intervening Thickness (a minus b) <u>5,578' KB</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? <u>YES</u> NO			
Lithology of Intervening Zones <u>Sandstones, siltstones, shales, limestones & anhydrite</u>			
Injection Rates and Pressures Maximum <u>2,000</u> B/D <u>3,600</u> PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. <u>Richard Perkins, P.O. Box 592, Blanding, UT 84511</u> <u>Charles Hardy Redd, Box 247, LaSal, UT 84530</u>			

State of _____)

County of _____)

Applicant

Before me, the undersigned authority, on this day personally appeared _____
known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on
oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated
therein, and that said report is true and correct.

Suscribed and sworn to before me this _____ day of _____, 19 _____

SEAL

My commission expires _____

Notary Public in and for _____

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE 1-5 & RULE 1-4)

FORM NO. DOGM-UIC-1
(Revised 1982)

IN THE MATTER OF THE APPLICATION OF
Marathon Oil Company

ADDRESS P.O. Box 2659
Casper, WY ZIP 82602
INDIVIDUAL PARTNERSHIP CORPORATION X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE 3-23 Tin Cup Mesa WELL
SEC. 23 TWP. 38S RANGE 25E
San Juan COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL	<input checked="" type="checkbox"/>
DISPOSAL WELL	<input type="checkbox"/>
LP GAS STORAGE	<input type="checkbox"/>
EXISTING WELL (RULE 1-4)	<input type="checkbox"/>

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule 1-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name <u>Tin Cup Mesa</u>	Well No. <u>3-23</u>	Field <u>Tin Cup Mesa</u>	County <u>San Juan</u>
Location of Enhanced Recovery Injection or Disposal Well <u>1055' FSL 4014' FEL</u> Sec. <u>23</u> Twp. <u>38S</u> Rge. <u>25E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>1-8-83</u> <u>3000#</u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>None</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input type="checkbox"/> NO <input type="checkbox"/>		State What
Location of Injection Source(s) <u>N26°1'W 1,881'</u> <u>to NW Corner of Sec. 25</u>		Geologic Name(s) and Depth of Source(s) <u>Cutler 2,900' KB</u>	
Geologic Name of Injection Zone <u>Ismay</u>		Depth of Injection Interval <u>5578'</u> to <u>5647' (KB)</u>	
a. Top of the Perforated Interval: <u>5578' KB</u>	b. Base of Fresh Water: <u>0</u>	c. Intervening Thickness (a minus b) <u>5,578' KB</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? <u>YES</u> NO			
Lithology of Intervening Zones <u>Sandstones, siltstones, shales, limestones & anhydrite</u>			
Injection Rates and Pressures Maximum <u>2,000</u> B/D <u>3,600</u> PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. <u>Richard Perkins, P.O. Box 592, Blanding, UT 84511</u> <u>Charles Hardy Redd, Box 247, LaSal, UT 84530</u>			
MARATHON OIL COMPANY			

State of _____)

By: _____

Applicant's Attorney

County of _____)

Before me, the undersigned authority, on this day personally appeared _____
known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on
oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated
therein, and that said report is true and correct.

Suscribed and sworn to before me this _____ day of _____, 19 _____

SEAL

My commission expires _____

Notary Public in and for _____

(To be filed within 30 days after drilling is completed)

U-31928

COUNTY
LEASE NO.

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

API NO. 43-037-30815

640 Acres
N

DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

COUNTY San Juan SEC. 23 TWP. 38S RGE. 25E

COMPANY OPERATING Marathon Oil Company

OFFICE ADDRESS P.O. Box 2659

TOWN Casper STATE WY ZIP WYoming

FARM NAME Tin Cup Mesa WELL NO. 3-23

DRILLING STARTED 12-5-82 DRILLING FINISHED 12-26-82

DATE OF FIRST PRODUCTION 9-9-83 COMPLETED 9-9-83

WELL LOCATED NE 1/4 SW 1/4 SW 1/4

1055 FT. FROM SL OF 1/4 SEC. & 1266 FT. FROM WL OF 1/4 SEC.

ELEVATION DERRICK FLOOR 5184 GROUND 5170

COMPLETION & TEST DATA BY PRODUCING FORMATION

1

2

3

FORMATION	Ismay		
SPACING & SPACING ORDER NO.	Unit Well		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery		
PERFORATED	5578'-88'		
	5588'-97'		
INTERVALS	5608'-16'		
	5627'-32'		
ACIDIZED?	See Attachment		
FRACTURE TREATED?			

INITIAL TEST DATA

Date	9-9-83		
Oil, bbl./day	53		
Oil Gravity	45°		
Gas, Cu. Ft./day	89,000	CF	CF
Gas-Oil Ratio Cu. Ft./Bbl.	1686		
Water-Bbl./day	107		
Pumping or Flowing	Pumping		
CHOKE SIZE	None		
Pumping			
FLOW TUBING PRESSURE	53 PSI		

A record of the formations drilled through, and pertinent remarks are presented on the reverse.
(use reverse side)

Please refer to Attachment

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

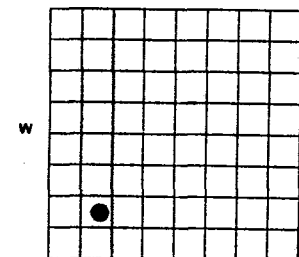
(307)

Telephone 577-1555

Dagmar L. Jones District Production Mgr.

Name and title of representative of company

Subscribed and sworn before me this 12 day of June, 19 85



Locate Well Correctly
and Outline Lease

TYPE COMPLETION

Single Zone Ismay

Multiple Zone

Comingled

LOCATION EXCEPTION

RECEIVED

JUN 17 1985

DIVISION OF OIL

GAS & MINING

OIL OR GAS ZONES

Name	From	To	Name	From	To
Ismay	5578'	5632'			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Top
9-5/8"	40&36	K-55	1488'	1500	540		Surface
5-1/2"	20	N-80	5895'	3000	1000		2650' CBL

TOTAL DEPTH 5895' KB

PACKERS SET

DEPTH After Injection Conversion Packer set at 5447' KB.

NOTE: THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	9-5/8"	1,488' KB	540	Surface	Calculation
Intermediate	None				
Production	5-1/2"	5,895' KB	1,000	2,650' KB	CBL
Tubing(epoxy coated)	2-7/8"	5,527' KB	Baker A3 Lok-Set @ 5,522' KB (coated) Name - Type - Depth of Tubing Packer		
Total Depth 5,895' KB	Geologic Name - Inj. Zone Isma'y		Depth - Top of Inj. Interval 5,578' KB		Depth - Base of Inj. Interval 5,647' KB

PRODUCTION TREATMENT

Ismay Perforations 5588' to 5597' KB were acidized with 1,000 gals MSR 28% HCL with 4 gals demulsifier, iron sequestering agent, and 2 gals A250 inhibitor.

Ismay Perforations 5578'-5588' KB were acidized in two stages. The first stage consisted of a 150# plug of Benzoic Acid Flakes followed by 500 gals of 28% HCL Acid with additives and flushed with 23 bbls of treated water. The second stage consisted of a 450# plug of Benzoic Acid Flakes followed by 500 gals of 28% HCL Acid with additives and flushed with 70 bbls of treated water.

LOG TOPS - KB: 5197'

Chinle	1646	(+3551)
Shinarump	2445	(+2752)
Moenkopi	2500	(+2697)
Cutler	2562	(+2635)
Honaker Trail	4413	(+ 784)
Paradox	5363	(- 166)
Upper Ismay	5516	(- 319)
Hovenweep	5677	(- 480)
Lower Ismay	5709	(- 512)
Gothic	5756	(- 559)
Desert Creek	5775	(- 578)
Chimney Rock	5848	(- 651)
Akah	5868	(- 671)
TD	5895	

INJECTION CONVERSION

The intervals 5632'-5642' and 5643'-5647' were perforated with 4 JSPF during the conversion to injection.

All perforations were then acidized with a total of 1700 gallons of 15% HCL acid and 1000 gallons of 28% HCL acid.

2-7/8" tubing was run and landed in the packer set at 5447'.

RECEIVED

JUN 17 1985

DIVISION OF OIL
GAS & MINING

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
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FORM NO. DOGM-UIC-1
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IN THE MATTER OF THE APPLICATION OF
Marathon Oil Company

ADDRESS P.O. Box 2659
Casper, WY ZIP 82602
INDIVIDUAL PARTNERSHIP CORPORATION X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE 3-23 Tin Cup Mesa WELL
SEC. 23 TWP. 38S RANGE 25E
San Juan COUNTY, UTAH

CAUSE NO. UIC-033

ENHANCED RECOVERY INJ. WELL ☒
DISPOSAL WELL ☐
LP GAS STORAGE ☐
EXISTING WELL (RULE 1-4) ☐

APPLICATION

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule 1-5 (g) (iv) authorizes administrative approval of enhanced recovery injections, disposal or LP Gas storage operations.
2. That the applicant submits the following information.

Lease Name <u>Tin Cup Mesa</u>	Well No. <u>3-23</u>	Field <u>Tin Cup Mesa</u>	County <u>San Juan</u>
Location of Enhanced Recovery Injection or Disposal Well <u>1055' FSL 4014' FEL</u> Sec. <u>23</u> Twp. <u>38S</u> Rge. <u>25E</u>			
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Old Well To Be Converted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>1-8-83</u> <u>3000'</u>	
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>None</u>	Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input type="checkbox"/> NO <input type="checkbox"/>		State What
Location of Injection Source(s) <u>N26°1'W 1,881'</u> <u>to NW Corner of Sec. 25</u>		Geologic Name(s) and Depth of Source(s) <u>Cutler 2,900' KB</u>	
Geologic Name of Injection Zone <u>Ismay</u>		Depth of Injection Interval <u>5578'</u> to <u>5647' (KB)</u>	
a. Top of the Perforated Interval: <u>5578' KB</u>	b. Base of Fresh Water: <u>0</u>	c. Intervening Thickness (a minus b) <u>5,578' KB</u>	
Is the intervening thickness sufficient to show fresh water will be protected without additional data? <u>YES</u> NO			
Lithology of Intervening Zones <u>Sandstones, siltstones, shales, limestones & anhydrite</u>			
Injection Rates and Pressures Maximum <u>2,000</u> B/D <u>3,600</u> PSI			
The Names and Addresses of Those to Whom Notice of Application Should be Sent. <u>Richard Perkins, P.O. Box 592, Blanding, UT 84511</u> <u>Charles Hardy Redd, Box 247, LaSal, UT 84530</u>			

State of _____)

Applicant

County of _____)

Before me, the undersigned authority, on this day personally appeared _____
known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on
oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated
therein, and that said report is true and correct.

Suscribed and sworn to before me this _____ day of _____, 19 _____

SEAL

My commission expires _____

Notary Public in and for _____

INSTRUCTIONS

1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitative analysis of the injection formation of water.
2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
4. Attach Electric or Radioactivity Log of Subject well (if released).
5. Attach schematic drawing of subsurface facilities including: Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
7. The Division is required to send notice of application to the surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehold within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	9-5/8"	1,488' KB	540	Surface	Calculation
Intermediate	None				
Production	5-1/2"	5,895' KB	1,000	2,650' KB	CBL
Tubing(epoxy coated)	2-7/8"	5,527' KB	Name - Type - Depth of Tubing Packer Baker A3 Lok-Set @ 5,528' KB (coated)		
Total Depth 5,895' KB	Geologic Name - Inj. Zone Ismay		Depth - Top of Inj. Interval 5,578' KB		Depth - Base of Inj. Interval 5,647' KB

RULE 1-5 APPLICATION FOR APPROVAL OF CLASS II INJECTION WELLS

- (a) Each application for the approval of a newly drilled or newly converted Class II Injection Well shall be filed on Form DOGM-UIC-1. The original and six (6) copies of the application and one complete set of attachments shall be furnished to the Board.

Answer:

Form DOGM-UIC-1 for both #1-25 and #3-23 Tin Cup Mesa is attached as Exhibits A and B, respectively. The following is the application for approval.

- (b) The application for the approval of Class II Injection Well(s) shall be accompanied by:
- (1) A plat showing the location and total depth of the following wells: The Class II Injection well, each water well(s), each abandoned, producing or drilling well and dry hole, within one-half mile of the Class II Injection well. The plat must identify the surface owner(s) of the land within one-half mile of the Class II Injection Well, and each operator of a producing leasehold within one-half mile of each Class II Injection well. Only wells of available public record are required to be included on the plat.

Answer:

See Exhibit C.

- (2) A copy of the notice of completion Form DOGM-UIC-2, and if required by the Board and/or Director:

Answer:

Form DOGM-UIC-2 will be submitted for both the #1-25 and the #3-23 Tin Cup Mesa wells upon completion of injector conversion workovers in both wells.

- i for a surface casing intended to protect underground sources of drinking water: resistivity, spontaneous potential and caliper logs prior to installation of the casing; and a cement bond, temperature, or density log after the casing is set and cemented.

Answer:

No logs were run prior to setting surface casing.

- ii For intermediate and long strings of casing intended to facilitate injection: resistivity, spontaneous potential, porosity, and gamma ray logs before the casing is installed; fracture finder logs, and a cement bond, temperature or density log after the casing is set and cemented.

Answer:

No intermediate string of casing was run.

The following logs were run prior to running production casing:

Resistivity)	
Porosity)	DLL-MSFL-GR
Density)	CNL-FDC-GR
Gamma Ray)	

The following logs were run after production casing was set and cemented:

Cement Bond

Copies of these logs are attached for both #1-25 and #3-23 Tin Cup Mesa. See Exhibits D - I.

- (3) A schematic diagram of the Class II well showing:
- i the total depth or plug-back depth of the well;
 - ii the depth of the injection or disposal interval;
 - iii the geological name of the injection or disposal zone;
 - iv the depths of the tops and bottoms of the casing and cement;
 - v the size of the casing and tubing, and the depth of the packer;
 - vi an assessment of the presently existing cement bond between the casing and formation;
 - vii the location of bottom hole.

Answer:

See Exhibits J and K for schematic diagrams of #1-25 and #3-23 Tin Cup Mesa, respectively.

- (4) Information showing that injection into the proposed zone will not initiate fractures through the confining strata which could enable the injection fluid or formation fluid to enter a USDW.
- i The Board may approve injection provided a finding is made from data, the application is required to furnish, and affidavits supporting the validity of such information.

Answer:

Supporting data: Injectivity tests have been performed on both Tin Cup Mesa #1-25 and #3-23. Water was injected through existing production perforations. From these tests a fracture

pressure and frac gradient were obtained. See Exhibits L and M. Results are summarized below.

	<u>Tin Cup Mesa #3-23</u>	<u>Tin Cup Mesa #1-25</u>
Frac gradient	1.12 psi/ft	1.14 psi/ft
Fracture pressure (Bottomhole)	6,300 psi	6,200 psi
Fracture pressure (Surface)	3,867 psi	3,848 psi

Maximum surface injection pressure requested is 3,600 psi for both wells, which is more than 200 psi below fracture pressure. High pressure shut down devices and relief valves will be designed to operate at 3,500 psi and 3,600 psi, respectively, to insure that the fracture pressure will not be met.

- ii The applicant is required to provide data including the maximum injection rate, maximum surface injection pressure, injection fluid and the lithology and rock properties of the injection zone and confining strata. The applicant's data must demonstrate that the proposed maximum surface injection pressure combined with the pressure of the well's hydrostatic head above the injection zone results in a pressure which could initiate fractures in the confining strata and enable the injection fluid or the formation fluid to enter a USDW.

Answer:

Maximum Injection Rate: 4,000 barrels water per day
(Total of both injectors)

Maximum Surface Injection Pressure: 3,600 psi*
* At 3,500 psi, high pressure shut downs will shut down injection operations

Injection Fluid: Cutler Water (See Exhibit N for injection fluid properties)

The injection zone is composed of porous and permeable limestone and dolomite. The carbonate rock has vugular, intergranular, and intercrystalline porosity.

The confining strata above the injection zone are composed of anhydrite and calcareous and dolomitic shales. These strata are impermeable and provide an effective seal for oil, gas, and water.

The confining strata below the injection zone are composed of calcereous and dolomitic shales. The shales are impermeable and effectively seal off oil, gas and water from strata below.

(5) Proposed operating data:

- i design injection rates and pressures and a procedure for controlling injection rates and pressures such as a relief valve, regulator or other pressure control device.

Answer:

Design Injection Rate: 4,000 BWP/D (total for both injectors)

Design Injection Pressures: 3,600 psi

Injection rates will be controlled by pump speed and throttling valves for each pump. Injection pressures will be kept within design specifications by utilizing high pressure shut down devices set at or below 3,500 psi. Relief valves will be set at or below 3,600 psi so that if shut down devices fail, relief valves will not allow pressure buildup above 3,600 psi.

- ii geologic name, depth, and location of injection fluid source;

Answer:

The injection fluid comes from the Cutler Formation at a depth of approximately 2,900'. The injection fluid source well is located N26° 1'W 1,881' to the NW corner of Section 25.

- iii qualitative and quantitative analysis of representative sample of water to be injected;

Answer:

A qualitative and quantitative analysis of a representative sample of the Cutler injection water is shown on exhibit N.

- iv appropriate geological data on the injection zone and confining zones including the lithologic description, geologic name, thickness, depth and lateral extent;

Answer:

The injection zone is the Upper Ismay zone of the Paradox Formation. The Upper Ismay is composed of porous and permeable limestone and dolomite. At the #1-25 Tin Cup Mesa, the injection zone is 66' thick with the top at 5,416'. At the #3-23 Tin Cup Mesa, the injection zone is 69' thick and the top is at 5,578'. The porous and permeable carbonate rocks vary in thickness from 0' to 120' thick, but they are restricted to the Tin Cup Mesa Field only. Outside the field the carbonate rocks are composed of tight limestone and they are less than 20' thick.

The confining stratum directly above the injection zone is the Upper Ismay massive anhydrite. The massive anhydrite is a dense, tight rock which is 62' thick at the #1-25 Tin Cup Mesa with the top at 5,352'. At the #3-23 Tin Cup Mesa the anhydrite is 38' thick with the top at 5,540'. The anhydrite thins across the field to five feet and thickens away from the field to 90' or more. Above the massive anhydrite is an impermeable layer of interbedded anhydrite and calcereous and dolomitic shales. The thickness of this layer ranges between 20' and 45' and it is 30' thick at the #1-25 with the top at 5,322' and 24' thick at the #3-23 with the top at 5,516'. A black shale overlies the layer of interbedded anhydrite and shales. The black shale is 15' thick at the #1-25 Tin Cup Mesa and the top is at 5,307'. The black shale is 14' thick at the #3-23 Tin Cup Mesa and the top is at 5,502'.

The massive anhydrite overlying the injection zone extends for three miles from the Tin Cup Mesa field. The interbedded anhydrite and shales extend more than three miles from Tin Cup Mesa field. The black shale above the interbedded anhydrite and shales extends throughout the southern Paradox Basin. All three of these units, the massive anhydrite, the interbedded anhydrite and shales, and the black shale, are impermeable and they will effectively seal off the oil, gas, and water of the injection zone from any strata above the Upper Ismay.

The confining stratum below the injection zone is the Hovenweep Shale. The Hovenweep Shale is composed of impermeable calcereous and dolomitic shales. The Hovenweep is 29' thick at the #1-25 Tin Cup Mesa and the top is at 5,487'. At the #3-23 Tin Cup Mesa, the Hovenweep is 38' thick and the top is at 5,677'. The Hovenweep extends more than a few miles beyond the Tin Cup Mesa field and throughout the southern Paradox Basin. The Hovenweep is impermeable and it will effectively seal off the oil, gas, and water of the injection zone from any strata below the Upper Ismay.

- v the geologic name, lateral extent, and depth to the top and bottom of all underground sources of drinking water which may be affected by the injection;

Answer:

There are no known sources of drinking water within one-half mile of either the #1-25 or the #3-23 Tin Cup Mesa or within the Tin Cup Mesa Unit (see Exhibit O). The deepest water well in the area surrounding Tin Cup Mesa field is 4,200' above the injection zone (Exhibit O).

- vi qualitative analysis of injection formation water on basis for exemption under Rule 1-5 (C).

Answer:

A qualitative analysis of injection formation water is shown on Exhibit N under "Ismay Produced Water Properties."

- (6) Contingency plans to cope with all shut-ins or well failures so as to prevent migration of polluting fluids into any underground source of drinking water.

Answer:

The injection system will be equipped with high and low pressure shut down devices which will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also insure proper flow management. Relief valves will also be utilized for high pressure relief.

- (7) The results of any formation testing programs.

Answer:

The Ismay formation has been tested for injectivity in both proposed injectors. Results of the water injection tests through existing production perforations are attached. The test results show a fracture pressure at the surface of approximately 3,850 psi for both wells. Maximum injection pressure is 3,600 psi with high level shut downs and relief valves to be set at 3,500 psi and 3,600 psi, respectively. See Exhibits L and M.

- (8) A description of the mechanical integrity test, the actual injection procedure and notification to the Division of the date and time of test to provide the Division the opportunity to monitor the test.

Answer:

The casing outside the tubing shall be tested to a pressure of 1,000 psi for 15 minutes as indicated in Rule 1-6 (a) (4). The Division will be notified of the date and time of test, as requested in Rule 1-5 (b) 8.

- (9) For new wells, the status of corrective action on defective wells in the area of review.

Answer:

This does not apply to our applications.

- (10) Any other additional information which the Board shall determine is necessary in order to adequately review the application.

Answer:

Await review of application for further additional required information.

Exhibit "N"✓
SUMMARY OF WATER ANALYSES*
AT TIN CUP MESA, UTAH

	<u>Cutler Injection Water Properties</u>	<u>Ismay Produced Water Properties</u>
PH	7.9	6.4
Temp °F	68	100
TDS (mg/l)	75,562	256,894
TSS (mg/l)	<1.0	N.A.
Ca (mg/l)	4,840	11,235
Na (mg/l)	18,360	67,880
Cl ⁻ (mg/l)	39,440	147,008
O ₂ (ppb)	<10	<100
CO ₃ (mg/l)	<1	<1
Fe (mg/l)	1.7	9.0
H ₂ S (mg/l)	<0.1	<0.1
SO ₄ (mg/l)	1,380	735
HCO ₃ (mg/l)	41	67
K (mg/l)	78	2,864
Sr (mg/l)	170	375
Ba (mg/l)	<20	<20

*These tests were performed by DRC personnel.

Tin Cup Mesa Injection Well
 Exhibit "C"
 Schedule of Mineral and Surface Grazing Ownership
 T38S-R25E, San Juan County, Utah

TRACT NO.	DESCRIPTION OF LANDS	MINERAL OWNERSHIP	MINERALS LEASED BY	FEDERAL SERIAL NO. & EXPIRATION DATE	SURFACE GRAZING RIGHTS LEASED BY
1	Sec. 22: W $\frac{1}{2}$	USA	Currently NOL	NOL Does not apply	Richard Perkins (A11)
	Sec. 27: A11	USA	Currently NOL	NOL Does not apply	Richard Perkins - Sec. 27: W $\frac{1}{2}$, SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ E $\frac{1}{2}$ Charles Hardy Redd - Sec. 27: N $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$
	Sec. 34: NE $\frac{1}{4}$	USA	Currently NOL	NOL Does not apply	Richard Perkins (A11)
	Sec. 35: NW $\frac{1}{4}$	USA	Currently NOL	NOL Does not apply	Richard Perkins - Sec. 35: SW $\frac{1}{4}$ NW $\frac{1}{4}$ Charles Hardy Redd - Sec. 35: N $\frac{1}{2}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$
2	Sec. 22: E $\frac{1}{2}$	USA	MCOR	U-30712 11-85	Richard Perkins - Sec. 22: NE $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$
	Sec. 25: NW $\frac{1}{4}$ NW $\frac{1}{4}$	USA	MCOR	U-30712 11-85	Charles Hardy Redd - Sec. 22: S $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 25: NW $\frac{1}{4}$ NW $\frac{1}{4}$
3	Sec. 23: W $\frac{1}{2}$, W $\frac{1}{2}$ SE $\frac{1}{4}$	USA	Marathon Oil	U-31928 2-86	Charles Hardy Redd (A11)
	Sec. 25: SW $\frac{1}{4}$ NW $\frac{1}{4}$	USA	Marathon Oil	U-31928 2-86	Charles Hardy Redd (A11)
	Sec. 26: E $\frac{1}{2}$	USA	Marathon Oil	U-31928 2-86	Charles Hardy Redd (A11)
4	Sec. 23: NE $\frac{1}{4}$	USA	Marathon, Celsius	U-31477 12-85	Charles Hardy Redd

TRACT NO.	DESCRIPTION OF LANDS	MINERAL OWNERSHIP	MINERALS LEASED BY	FEDERAL SERIAL NO. & EXPIRATION DATE	SURFACE GRAZING RIGHTS LEASED BY
5.	Sec. 24: W $\frac{1}{2}$ NW $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$	USA	Marathon, Celsius, Mobil, MCOR	U-44824 Held by Unit	Charles Hardy Redd
6.	Sec. 24: E $\frac{1}{2}$ NW $\frac{1}{4}$, W $\frac{1}{2}$ SW $\frac{1}{4}$	USA	Transco Expl.	U-46735 5-91	Charles Hardy Redd
7.	Sec. 24: NE $\frac{1}{4}$	USA	Antelope Production	U-47971 4-19-84	Charles Hardy Redd
8.	Sec. 24: SE $\frac{1}{4}$	USA	Mobil, MCOR, Celsius	U-17063 4-19-84	Charles Hardy Redd
9.	Sec. 25: NE $\frac{1}{4}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$	USA	Marathon, Celsius, Mobil, MCOR	U-45911 Held by unit	Charles Hardy Redd
10.	Sec. 25: NW $\frac{1}{4}$ NE $\frac{1}{4}$	USA	Richard Peterson	U-49690 12-91	Charles Hardy Redd
11.	Sec. 25: SE $\frac{1}{4}$ NW $\frac{1}{4}$	USA	Marathon, Celsius, Mobil, MCOR	U-44819 Held by unit	Charles Hardy Redd
12.	Sec. 25: NE $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NE $\frac{1}{4}$	USA	Antelope Production	U-42067 2-89	Charles Hardy Redd
13.	Sec. 26: NW $\frac{1}{4}$	USA	Marathon, Celsius, Mobil	U-44825 Held by unit	Charles Hardy Redd
14.	Sec. 26: SW $\frac{1}{4}$	USA	Beard Oil	U-28245 12-84	Charles Hardy Redd
15.	Sec. 25: SW $\frac{1}{4}$	USA	Marathon, Celsius, Mobil, MCOR	U-13655 Held by unit	Charles Hardy Redd
16.	Sec. 23: E $\frac{1}{2}$ SE $\frac{1}{4}$	USA	Celsius, Mobil, Marathon	U-13921 Held by unit	Charles Hardy Redd

<u>TRACT NO.</u>	<u>DESCRIPTION OF LANDS</u>	<u>MINERAL OWNERSHIP</u>	<u>MINERALS LEASED BY</u>	<u>FEDERAL SERIAL NO. & EXPIRATION DATE</u>	<u>SURFACE GRAZING RIGHTS LEASED BY</u>
17.	Sec. 34: W $\frac{1}{2}$, SE $\frac{1}{4}$	USA	G. F. Rothschild	U-52332 3-93	Richard Perkins
18.	Sec. 35: SW $\frac{1}{4}$	USA	Getty, Chorney, Anderson	U-30133 7-84	Charles Hardy Redd
19.	Sec. 35: E $\frac{1}{2}$	USA	Ladd Petroleum	U-37365 7-87	Charles Hardy Redd
20.	Sec. 36: NW $\frac{1}{4}$	St. of Utah	Celsius, MCOR	ML-30593 6-10-84	Charles Hardy Redd
21.	Sec. 36: NE $\frac{1}{4}$	St. of Utah	Ray Chorney	ML-36202 10-16-88	Charles Hardy Redd
22.	Sec. 36: S $\frac{1}{2}$	St. of Utah	Raymond T. Duncan	ML-35726 5-8-88	Charles Hardy Redd

CAUSE NO. UIC-033

Newspaper Agency
San Juan Record

Marathon Oil Company
PO Box 2659
Casper, WY 82602

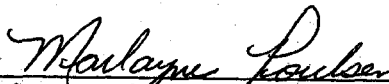
Ut. Dept. of Health
Water Pollution Control
Attn: Jerry Riding
150 W.N. Temple
Salt Lake City, UT

U.S. Environmental Protection Agency
1860 Lincoln Street
Attn: Mike Strieby
Denver, CO 80295

Minerals Management Service
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, UT 84104 (BLM)

Mr. Richard Perkins,
PO Box 592
Blanding, UT 84511

Mr. Charles Hardy Redd
Box 247
La Sal, UT 84530


February 10, 1984

RECEIVED

Form OGC-3

SUBMIT IN DUPLICATE*
(See other instructions
on reverse side)JUN 17 1985 STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
DIVISION OF OILGAS & MINING
WELL COMPLETION OR RECOMPLETION REPORT AND LOG *1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other Injection
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other Convert to Injector

2. NAME OF OPERATOR

Marathon Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 2659, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface SE SW 1055' FSL & 4014' FEL

At top prod. interval reported below

At total depth

14. PERMIT NO.

43-037-30815

DATE ISSUED

9-21-82

15. DATE SPUDDED

12-5-82

16. DATE T.D. REACHED

12-26-82

17. DATE COMPL. (Ready to prod.)

Injection 5-1385

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

5170' GL, 5184' KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

5895'

21. PLUG, BACK T.D., MD & TVD

5852'

22. IF MULTIPLE COMPL.,
HOW MANY*

23. INTERVALS
DRILLED BY

0 →

ROTARY TOOLS

5895'

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Injection Ismay-5632'-5642', 5643'-5647'

Previous Ismay-5578'-5588', 5588'-5597', 5608'-5616'

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

No logs run during conversion

27. WAS WELL CORED

Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	40# & 36#	1406' & 1488'	12-1/4"	540 sx	None
5-1/2"	20#	5895'	8-3/4"	1000 sx	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	5447'	5447'

31. PERFORATION RECORD (Interval, size and number)

5578'-5588'-3JSPF, 5588'-5597'-4 JSPF

5608'-5616'-8JSPF, 5627'-5632'-4 JSPF

5632'-5642'-4JSPF, 5643'-5647'-4 JSPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
All perforations	Acidized with a total of
1700 gals of 15% HCL	and 1000 Gals of 25% HCL

33.*

PRODUCTION

DATE FIRST PRODUCTION

Injection 1-26-85

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

Injection

WELL STATUS (Producing or
shut-in) Injection

DATE OF TEST

5-9-85

HOURS TESTED

24

CHOKE SIZE

PROD'N. FOR
TEST PERIOD

→

OIL—BBL.

GAS—MCF.

WATER—BBL.

372

GAS-OIL RATIO

FLOW, TUBING PRESS.

Inj. 3300 PSIG

CASING PRESSURE

2075 PSIG

CALCULATED
24-HOUR RATE

→

OIL—BBL.

GAS—MCF.

WATER—BBL.

372

OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

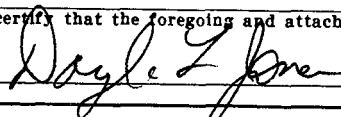
TEST WITNESSED BY

Jim VanGilder

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED



TITLE District Production Manager DATE June 10, 1985

*(See Instructions and Spaces for Additional Data on Reverse Side)

13

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Injection Well	7. UNIT AGREEMENT NAME Tin Cup Mesa
2. NAME OF OPERATOR Marathon Oil Company	8. FARM OR LEASE NAME Tin Cup Mesa
3. ADDRESS OF OPERATOR P. O. Box 2690, Cody, Wyoming 82414	9. WELL NO. 3-23
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement. See also space 17 below.) At surface 1055' FSL & 4014' FEL	10. FIELD AND POOL, OR WILDCAT Tin Cup Mesa
14. PERMIT NO. 43-037-30815	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T38S, R25E
15. ELEVATIONS (Show whether OF, RT, CR, etc.) 5184' GI	12. COUNTY OR PARISH San Juan
	13. STATE Utah

RECEIVED
JUL 22 1987

DIVISION OF
OIL, GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Marathon Oil Company requests permission to acid fracture the above referenced well using 10,000 gallons of Versagel and 10,000 gallons of 28% HCL-Fe in order to increase injectivity into the existing Ismay perforations 5578' to 5647'.

18. I hereby certify that the foregoing is true and correct

SIGNED R.P. Meala TITLE Regulatory Coordinator DATE June 26, 1987

(This space for Federal or State office use)

APPROVED BY Diane Hedine TITLE District Manager DATE 7/14/87

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

See Instructions on Reverse Side

DATE 7-28-87

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any de, United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS INSPECTION RECORD

RECEIVED
NOV 02 1988

OPERATOR Marathon LEASE OIL, GAS & MINING
WELL NO. TCM-3-23 API 43-037-30815
SEC. 23 T. 38S R. 25E CONTRACTOR _____
COUNTY SJT FIELD TCM

DRILLING/COMPLETION/WORKOVER:

<input type="checkbox"/> APD	<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> SCOPE
<input type="checkbox"/> SAFETY	<input type="checkbox"/> POLL. CONTROL	<input type="checkbox"/> SURFACE USE	<input type="checkbox"/> PITS
<input type="checkbox"/> OPERATIONS	<input type="checkbox"/> OTHER		

SHUT-IN ☐ / TA ☐ :
☐ WELL SIGN ☐ HOUSEKEEPING ☐ EQUIPMENT* ☐ SAFETY
☐ OTHER

ABANDONED:

<input type="checkbox"/> MARKER	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> REHAB.	<input type="checkbox"/> OTHER
---------------------------------	---------------------------------------	---------------------------------	--------------------------------

~~PRODUCTION~~ WTW

<input checked="" type="checkbox"/> WELL SIGN	<input checked="" type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> EQUIPMENT*	<input type="checkbox"/> FACILITIES*
<input type="checkbox"/> METERING*	<input checked="" type="checkbox"/> POLL. CONTROL	<input type="checkbox"/> PITS	<input type="checkbox"/> DISPOSAL
<input type="checkbox"/> SECURITY	<input checked="" type="checkbox"/> SAFETY	<input type="checkbox"/> OTHER	

GAS DISPOSITION:

<input type="checkbox"/> VENTED/FLARED	<input type="checkbox"/> SOLD	<input type="checkbox"/> LEASE USE
--	-------------------------------	------------------------------------

LEGEND: Y - YES OR SATISFACTORY
N - NO OR UNSATISFACTORY
NA - NOT APPLICABLE

*FACILITIES INSPECTED: _____

REMARKS: WTW Tbg. Press 3250th

ACTION: ATTN DAN JARVIS

INSPECTOR: A. L. L. DATE 10/31/88

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0125
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug a well. Use "APPLICATION FOR PERMIT—" for such purposes.)

RECEIVED
OCT 23 1989

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Injector

2. NAME OF OPERATOR

Marathon Oil Company

DIVISION OF
OIL, GAS & MINING

3. ADDRESS OF OPERATOR

P. O. Box 2690, Cody, Wyoming 82414

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

SWSW 1055' FSL & 4014' FEL

7. UNIT AGREEMENT NAME

Tin Cup Mesa

8. FARM OR LEASE NAME

Tin Cup Mesa

9. WELL NO.

3-23

10. FIELD AND POOL, OR WILDCAT

Tin Cup Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 25, T38S, R25E

14. PERMIT NO.

43-037-30815

15. ELEVATIONS (Show whether DT, RT, GK, etc.)

5184' KB

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) See Below

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion and log completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

READ AND UNDERSTAND ATTACHED
LLM STIPULATIONS PRIOR TO COMPLETION.

OIL AND GAS	
JRB	GLH
DTS	SLS
2-TAS	
MICROFILM	
3. FILE	

Marathon Oil Company requests approval to isolate some existing perforations by following the attached procedure so that injected fluids will be isolated to the Upper portion of perforations within the Upper Ismay Formation.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 10-30-89
BY: [Signature]

BLM-Orig & 3--cc: [Signature] WOGC-2, WRF, FMK, TKS, Title & Contract (Houston) WTR (5)

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature]

TITLE Regulatory Coordinator

DATE October 4, 1989

(This space for Federal or State office use)

APPROVED BY [Signature]
CONDITIONS OF APPROVAL, IF ANY:

TITLE Acting District Manager

DATE 10/13/89

CONDITIONS OF APPROVAL ATTACHED

*See Instructions on Reverse Side

Procedure for Conformance Work
Tin Cup Mesa #3-23
Tin Cup Mesa Field
San Juan County, Utah

Well Data:

Elevation: 5184' GL; 5197' KB

Depth: TD @ 5896' KB; PBD @ 5852' KB

Casing Record:

Surface: 9-5/8", 40#, K-55 set at 1488'

Production: 5-1/2", 20#, N-80 set at 5895'

Tubing Record: 2-7/8", 6.5#, N-80 with Internal Coating

Packer: Baker 47B Inverted Lok-Set with Internal Coating, and 6 element system. Bottom of packer set at 5462'. SN ID = 1.78".

Perforation: Upper Ismay: 5578-97'
5608-16'
5627-47'

Proposed Retainer Setting Depth: 5621' KB

Procedure Summary

The purpose of this procedure is to place a wireline-set cement retainer across the oil-water contact in order to divert the water currently entering perforations below this level into oil-saturated intervals. The estimated cost for this procedure is ; there is no AFE for this work.

Procedure:

1. "Bleed pressure off injection head. MIRU rig. NU BOPE.
 2. Release the Baker Inverted Lok-set packer and POOH with the internally coated tubing. *Run trip a 5 1/2" casing string to PBD. Check tubing for perforation buildup & clean as necessary.*
 3. RU wireline company and packoff. RIH with a 5-1/2" wireline-set cement retainer and set at 5621' KB using collars for depth control on CBL run on 1-6-83. POOH and RD wireline company. *TR*
 4. Tally back into the hole with redressed packer to 5462' KB.
 5. Pump 80 bbls. fresh city water containing bactericide and corrosion inhibition down the backside and set the packer. Notify the Utah Board of Oil, Gas and Mining of our intentions to conduct a UIC test. Pressure test the tubing-casing annulus to 1000 psi with a UBOGM representative on location.
 6. ND BOPE. RD and move off rig. Place well back on injection.
- Note: Use stabbing guides when handling the coated tubing.

TMB/sp

Approval: Sh. Hemmings 9-20-89

RD Winters 9-25-89

TRB 9/30/89

Marathon Oil Company
Tin Cup Mesa 3-23
Sec. 25, T. 38 S., R. 25 E.
San Juan County, Utah
Lease U-31928

CONDITIONS OF APPROVAL

Notify Mike Wade of the BLM, San Juan Resource Area,
at least 24 hours prior to commencing operations.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug a well in a reserved reservoir.
Use "APPLICATION FOR PERMIT" for such.)

1. OIL ☐ GAS ☐ OTHER ☐ Surface Disturbance

2. NAME OF OPERATOR

Marathon Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 2690, Cody, Wyoming 82414

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

See also space 17 below.)
At surface

1055' FSL & 4014' FEL

14. PERMIT NO.

43-037-30815

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5184' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) See Below

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and DR Norm.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all numbers and codes pertinent to this work.)

OIL AND GAS	
DR	RJF
DTS	SLS
2-TAS	
3-MICROFILM	
4-WIW FILE	

A surface disturbance is requested to construct a temporary pit approximately 10'x12'x6' in size to contain any well fluids encountered during the well work at the above referenced well. The pit will be located on the existing pad area which was previously disturbed. Once work is completed the pit will be allowed to dry then it will be backfilled.

Accepted by the State
of Utah Division of
Oil, Gas and Mining

Date: 11-16-89

By: [Signature]

BLM-Orig & 3--cc: (Utah) SUDOGM-2, WRF, FMK, TKS, Title & Contract (Houston)

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE Regulatory Coordinator

DATE October 9, 1989

(This space for Federal or State office use)

APPROVED BY

[Signature]

TITLE District Mgr.

DATE 10/30/89

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

*See Instructions on Reverse Side

Marathon Oil Company
Well No. Tin Cup Mesa 3-23
SWSW Sec. 25, T. 38 S., R. 25 E.
San Juan County, Utah
Lease U-31928

CONDITIONS OF APPROVAL

1. If fluids are discharged into the pit, the pit shall be fenced with four strands of barbed wire.
2. Accumulations of salt water in the pit shall be transferred into the previously approved salt water pit.

Mid-Continent Region
Production United States



**Marathon
Oil Company**

P.O. Box 552
Midland, Texas 79702
Telephone 915/682-1626

PANAFAX TRANSMITTAL SHEET

SEND THE FOLLOWING PAGES TO:

NAME LISA Cordova
COMPANY NAME Wah Div of O. & G.
LOCATION _____
PANAFAX NUMBER: (801) 359-3940

FROM:

NAME David Goosins EXT. 8340

TOTAL NUMBER OF PAGES: 2 (including cover sheet)

IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL BACK ASAP

PHONE _____

COMMENTS _____

COPY

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

JAN 7 1996

IN REPLY REFER TO:
UT-922

GAS & MIN.

January 12, 1996

Cochrane Resources, Inc.
P.O. Box 1656
Roosevelt, Utah 84066

RE: Tin Cup Mesa Unit
San Juan County, Utah

Gentlemen:

On January 11, 1996, we received an indenture dated January 9, 1996, whereby Marathon Oil Company resigned as Unit Operator and Cochrane Resources, Inc. was designated as Successor Unit Operator for the Tin Cup Mesa Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective January 12, 1996. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Tin Cup Mesa Unit Agreement.

Your statewide (Utah) oil and gas bond No. 0699 will be used to cover all operations within the Tin Cup Mesa Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: District Manager - Moab (w/enclosure)
~~Division of Oil, Gas & Mining~~
Division of Mineral Adjudication U-923
File - Tin Cup Mesa Unit (w/enclosure)
MMS - Data Management Division ((Attn: Rose Dablo)
Agr. Sec. Chron
Fluid Chron

U-922:TAThompson:tt:01-12-96

WELL STATUS REPORTS
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
-----------------	---------	----------------	----------	-----	-----	----------------	------------	----------

** INSPECTION ITEM 8910203910	31761	TIN CUP MESA IS A						
8910203910	430375966500S1	1	SWNW	25 38S	25E	WDW	UTU31928	MARATHON OIL COMPANY
8910203910	430373069000S1	1-25	SWNW	25 38S	25E	WIW	UTU31928	MARATHON OIL COMPANY 431928
8910203910	430373080800S1	2-23	SESW	23 38S	25E	POW	UTU31928	MARATHON OIL COMPANY 431928
8910203910	430373098300S1	2-25	NWSW	25 38S	25E	POW	UTU13655	MARATHON OIL COMPANY 413655
8910203910	430373081500S1	3-23	SWSW	23 38S	25E	WWSI	UTU31928	MARATHON OIL COMPANY 431928
8910203910	430373102000S1	3-25	SESW	25 38S	25E	TA	UTU13655	MARATHON OIL COMPANY 413655
8910203910	430373076200S1	3-26	NWNW	26 38S	25E	WIW	UTU31928	MARATHON OIL COMPANY 431928
8910203910	430373114500S1	4-25	SESW	25 38S	25E	WIW	UTU13655	MARATHON OIL COMPANY 413655
8910203910	430373094100S1	4-26	SENE	26 38S	25E	WIW	UTU31928	MARATHON OIL COMPANY 431928
8910203910	430373136800S1	5-26	SWNE	26 38S	25E	POW	UTU31928	MARATHON OIL COMPANY 431928
8910203910	430373154000S1	6-26	NESE	26 38S	25E	POW	UTU31928	MARATHON OIL COMPANY 431928

Entity#

2765

JAN 23 1996

RESIGNATION OF OPERATOR

Tin Cup Mesa Unit Area

County of San Juan

State of Utah

Unit Agreement No. 14-08-0001-20391

Under and pursuant to the provisions of Section 5 of the Unit Agreement for the Development and Operation of the Tin Cup Mesa Unit Area, San Juan County, Utah, Marathon Oil Company, the designated Unit Operator under said Unit Agreement, does hereby resign as Unit Operator, effective upon the selection and approval of a successor Unit Operator.

EXECUTED with effect as aforesaid this 29th day of November, 1995.

ATTEST:



MARATHON OIL COMPANY



By: **A.R. Kukla**
Title: **Attorney-In-Fact**



12-19-95

Authorized Officer
Bureau of Land Management


Re: Tin Cup Mesa Unit
San Juan County, Utah

Gentlemen:

Enclosed for your consideration and approval, are four (4) copies of Resignation
of Unit Operator ~~and Designation of Successor Operator~~ for the Tin Cup Mesa Unit
Area.

Cochrane Resources, as the designated successor operator under the Tin Cup Mesa Unit
Agreement, hereby certifies that the requisite approvals of the current working interest
owners in the agreement have been obtained to satisfy the requirements for selection
of a successor operator as set forth under the terms and provisions of the agreement.
All operations within the Tin Cup Mesa Unit Agreement will be covered by bond no.
UT0699.

Sincerely,


Ken Allen
Cochrane Resources, Inc.
President

Enclosures

FEB-21-96 WED 02:37 PM STATE OF UTAH OIL GAS

FAX NO. 538 5340

P. 03/06

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: _____
Field or Unit name: Tin Cup Mesa Unit API no. _____
Well location: QQ _____ section _____ township 28S range 25E county San Juan
Effective Date of Transfer: 12-1-95

CURRENT OPERATOR

Transfer approved by:

Name DAVID S. GOOBINS III Company MARATHON OIL COMPANY
Signature [Signature] Address PO Box 552
Title SENIOR PRODUCTION ENGINEER MIDLAND, TX 79702
Date 2/22/96 Phone (915) 687-8340
Comments:

NEW OPERATOR

Transfer approved by:

Name Ken Allan Company Cochrane Resources Inc.
Signature [Signature] Address P.O. Box 1656
Title President Roosevelt Utah 84061
Date 2-21-96 Phone (801) 722-5081
Comments:

(State use only)

Transfer approved by [Signature] Title Environ Manager
Approval Date 4-4-96

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- DEC 7-FILM	<input checked="" type="checkbox"/>
2- DEC 8-FILE	<input checked="" type="checkbox"/>
3-VLD	<input checked="" type="checkbox"/>
4-RJF	<input checked="" type="checkbox"/>
5-LRC	<input checked="" type="checkbox"/>
6-SJ	<input type="checkbox"/>

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 12-01-95)

TO (new operator) COCHRANE RESOURCES INC
 (address) PO BOX 1656
ROOSEVELT UT 84066
 phone (801) 722-5081
 account no. N 7015

FROM (former operator) MARATHON OIL COMPANY
 (address) PO BOX 552
MIDLAND TX 79702
 phone (915) 687-8155
 account no. N 3490

***TIN CUP MESA UNIT**

Well(s) (attach additional page if needed):

Name: **SEE ATTACHED**	API: <u>037-30815</u>	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec. _____	Twp. _____	Rng. _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- 1 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. 1-19-96) (Rec'd 1-23-96)
- 2 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 1-22-96) (Rec'd 1-23-96)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____
- 4 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 5 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (2-8-96 O&G Wells) (Inf. Wells 4-3-96)
- 6 6. Cardex file has been updated for each well listed above. (2-8-96 O&G Wells) (Inf. Wells 4-3-96)
- 7 7. Well file labels have been updated for each well listed above. (2-8-96 O&G Wells) (Inf. Wells 4-3-96)
- 8 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (2-8-96 O&G Wells) (Inf. Wells 4-3-96)
- 9 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- See 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- ___ 2. A copy of this form has been placed in the new and former operators' bond files.
- ___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19__.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19__, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- VDP 1. All attachments to this form have been microfilmed. Date: April 17 1996.

FILING

- ___ 1. Copies of all attachments to this form have been filed in each well file.
- ___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

9/60/19 BLM/SL Apr. eff. 1-12-96.

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: TIN CUP MESA 3-23 API Number: 43-037-30815Qtr/Qtr: SW/SW Section: 23 Township: 38S Range: 25ECompany Name: COCHRANE RESOURCES INCLease: State _____ Fee _____ Federal X Indian _____Inspector: J THOMPSON Date: 8/24/99 10:35 AM

Initial Conditions:

Tubing - Rate: 0 Pressure: 0 psiCasing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	<u>0</u>	<u>0</u>
5	<u>1000</u>	<u>0</u>
10	<u>1000</u>	<u>0</u>
15	<u>995</u>	<u>0</u>
20	<u>995</u>	<u>0</u>
25	<u>995</u>	<u>0</u>
30	<u>995</u>	<u>0</u>

Results: Pass Fail

Conditions After Test:

Tubing Pressure: 0 psiCasing/Tubing Annulus Pressure: 0 psiCOMMENTS: Small drop in 1" valve. Dig thrust up line.

Operator Representative

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-31928
2. NAME OF OPERATOR Cochrane Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 1656 Roosevelt, Utah 84066		7. UNIT AGREEMENT NAME Tin Cup Mesa Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1,055.07' FSL & 4,014.20' FEL		8. FARM OR LEASE NAME Tin Cup Mesa
14. PERMIT NO. 43-037-30815		9. WELL NO. 3-23
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,184' GL, 5,197' KB		10. FIELD AND POOL, OR WILDCAT Tin Cup
		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec 23, T38S, R25E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Please be advised that the subject well is being converted from a shut in water injection well to a producing oil well.

RECEIVED

SEP 21 2000

DIVISION OF
OIL, GAS AND MINING

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Smallen</u>	TITLE <u>President</u>	DATE <u>September 19, 2000</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1001-0133
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-31928

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. ☒ OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

Cochrane Resources, Inc.

3. ADDRESS OF OPERATOR

PO Box 1656

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1,055.07' FSL & 4,014.20' FEL

14. PERMIT NO.

43-037-30815

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5,184'GL 5,197"KB

7. UNIT AGREEMENT NAME

Tin cup Mesa Unit

8. FARM OR LEASE NAME

Tin cup Mesa

9. WELL NO.

3-23

10. FIELD AND POOL, OR WILDCAT

Tin cup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 23, T38S, R25E

12. COUNTY OR PARISH

San Juan

13. STATE

utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well was placed on production October 27, 2000. The Well is currently producing 0 oil, 12 MCF gas and 55 water.

The work involved included pulling a packer on 2 7/8" tubing and running a tubing anchor, seating nipple, rod pump, and sucker rods. A pumping unit was set to pump the well.

Same P2 (Jamy) per Debbie Allen - 11/1-00/CHD

RECEIVED

OCT 31 2000

DIVISION OF
OIL, GAS AND MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Debbie Allen

TITLE Office Manager

DATE October 30, 2000

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ

2. CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

4/1/2008

FROM: (Old Operator): N7015-Cochrane Resources, Inc PO Box 1656 Roosevelt, UT 84066 Phone: 1 (435-722-5081)	TO: (New Operator): N8195-Mar/Reg Oil Company PO Box 18148 Reno, NV 89511 Phone: 1 (775) 852-7444
--	---

CA No.				Unit:	TIN CUP MESA			
WELL NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/4/2008
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/3/2008
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/23/2008
- a. Is the new operator registered in the State of Utah: Business Number: 1267088-0143
- b. If **NO**, the operator was contacted on: _____
- a. (R649-9-2) Waste Management Plan has been received on: IN PLACE
- b. Inspections of LA PA state/fee well sites complete on: _____
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 5/28/2008 BIA
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 5/28/2008
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 7/2/2008

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 7/1/2008
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/1/2008
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: UTB000019
- Indian well(s) covered by Bond Number: n/a
- a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: SEE ATTACHED
2. NAME OF OPERATOR: COCHRANE RESOURCES, INC. N7015		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SEE ATTACHED
3. ADDRESS OF OPERATOR: PO BOX 1656 CITY ROOSEVELT STATE UT ZIP 84606		7. UNIT or CA AGREEMENT NAME: SEE ATTACHED
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED; EXHIBIT "A" COUNTY: SAN JUAN		8. WELL NAME and NUMBER: SEE ATTACHED
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH		9. API NUMBER:
10. FIELD AND POOL, OR WILDCAT: TIN CUP MESA		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: CHANGE OF OPERATOR
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The successor Operator for this well will be:

Mar/Reg Oil Company
PO Box 18148
Reno, NV 89511
(775) 852-7444

N8195

Agreed and accepted this 2nd day of June 2008

effective April 1, 2008

Mar/Reg Oil Company

By:

Rhonda Ahmad
President

Mar/Reg State Wide Bond # is UTB000019

NAME (PLEASE PRINT) KEN ALLEN

TITLE PRESIDENT

SIGNATURE

DATE

(This space for State use only)

APPROVED 7/1/2008

Earlene Russell

Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED

JUN 03 2008

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: SEE ATTACHED
2. NAME OF OPERATOR: COCHRANE RESOURCES, INC. N7015		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: PO BOX 1656 CITY ROOSEVELT STATE UT ZIP 84608		7. UNIT or CA AGREEMENT NAME: SEE ATTACHED
PHONE NUMBER: (435) 722-5081		8. WELL NAME and NUMBER: SEE ATTACHED
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED; EXHIBIT "A" COUNTY: SAN JUAN		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH		10. FIELD AND POOL, OR WILDCAT: TIN CUP MESA

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: CHANGE OF OPERATOR
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The successor Operator for this well will be:

Mar/Reg Oil Company
PO Box 18148
Reno, NV 89511
(775) 852-7444

Agreed and accepted this 3rd day of June 2008

Mar/Reg Oil Company

By: _____
Rhonda Ahmad
President
Mar/Reg State Wide Bond # is UTB000019

NAME (PLEASE PRINT) KEN ALLEN	TITLE PRESIDENT
SIGNATURE <i>[Signature]</i>	DATE 6-3-2008

(This space for State use only)

APPROVED 7/1/2008
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
JUN 04 2008
DIV. OF OIL, GAS & MINING

Exhibit A Well List

Tin Cup Mesa Unit Field

<u>API#</u>	<u>Lease Type</u>	<u>Well Name</u>	<u>Well Type</u>	<u>County</u>	<u>Location</u>	<u>Utah Entity #</u>
43-037-30690	Federal	TIN CUP MESA 1-25	Water Injection Well	SAN JUAN	25 SWNW T38S R25E	2765
43-037-30762	Federal	TIN CUP MESA 3-26	Oil Well	SAN JUAN	26 NWNE T38S R25E	2765
43-037-30808	Federal	TIN CUP MESA 2-23	Oil Well	SAN JUAN	23 SESW T38S R25E	2765
43-037-30815	Federal	TIN CUP MESA 3-23	Oil Well	SAN JUAN	23 SWSW T38S R25E	2765
43-037-30941	Federal	TIN CUP MESA 4-26	Oil Well	SAN JUAN	26 SENE T38S R25E	2765
43-037-30983	Federal	TIN CUP MESA 2-25	Oil Well	SAN JUAN	25 NWSW T38S R25E	2765
43-037-31020	Federal	TIN CUP MESA 3-25	Oil Well	SAN JUAN	25 SESW T38S R25E	2765
43-037-31145	Federal	TIN CUP MESA 4-25	Oil Well	SAN JUAN	25 SESW T38S R25E	2765
43-037-31368	Federal	TIN CUP MESA 5-26	Oil Well	SAN JUAN	26 SWNE T38S R25E	2765
43-037-31540	Federal	TIN CUP MESA 6-26	Oil Well	SAN JUAN	26 NESE T38S R25E	2765
43-037-31761	Federal	WDW 1	Water Disposal Well	SAN JUAN	25 SWNW T38S R25E	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO
3180
UT-922

May 28, 2008

Mar/Reg Oil Company
P. O. Box 18148
Reno, Nevada 89511

Re: Tin Cup Mesa Unit
San Juan County, Utah

Dear Ms. Ahmad:

On May 23, 2008, we received an indenture dated May 7, 2008, whereby Cochrane Resources, Inc. resigned as Unit Operator and Mar/Reg Oil Company was designated as Successor Unit Operator for the Tin Cup Mesa Unit, San Juan County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective May 28, 2008. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Tin Cup Mesa Unit Agreement.

Your statewide oil and gas bond no. UTB000019 will be used to cover all operations within the Tin Cup Mesa Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate agencies, with one copy returned herewith.

Sincerely,

/s/ Becky J. Hammond

Becky J. Hammond
Chief, Branch of Fluid Minerals

Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
UTU-31928

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
MAR-REG OIL COMPANY

3a. Address
PO BOX 18148, RENO, NV 89511

3b. Phone No. (include area code)
775-852-7444

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SWSW SEC 23, T38S, R25E, SLB

7. If Unit of CA/Agreement, Name and/or No.
TIN CUP MESA UNIT

8. Well Name and No.
TIN CUP MESA 3-23

9. API Well No.
43-037-30815

10. Field and Pool or Exploratory Area
TIN CUP MESA

11. County or Parish, State
SAN JUAN, UTAH

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Requesting Temporarily Abandon status to evaluate this well on the potential for re-entry with horizontal drilling in both the Upper Ismay and Desert Creek. We have recently drill horizontally and are planning to do the same on other wells to completely drain both reservoirs.

COPY SENT TO OPERATOR

Date: 10/4/2012

Initials: JKS

REQUEST DENIED
Utah Division of
Oil, Gas and Mining

Date: 10/12/2012

By: [Signature]

* Requirements of 2649-3-36 have not been met.

Federal Approval Of This
Action Is Necessary

RECEIVED

AUG 21 2012

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Dan Green

Title Petroleum Engineer

Signature

Date 08/16/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)